ARC

TILING GUIDE
PREPARATION • TOOLS • FINISHING

![ARC Building Products — We are stronger]

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TILING GUIDE

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INDEX

GENERAL GUIDELINES

SUBSTRATE

Before starting any tiling project ensure that the substrate to be tiled is:
- Clean & dry.
- Free from any contaminants.
- Sufficiently flat.
- Free from all paints, sealers and other coatings.
- Strong and rigid enough to support the tiles, adhesive and grout.

The preparation, type of adhesive & grout and whether expansion joints or tile sealer will be required, depends on the type of tile, type of substrate and site conditions.

For guidelines on substrate preparation see pages 46-61.

MOVEMENT JOINTS

Movement joints must be installed in certain areas and positions to prevent tiles debonding from the substrate. Industry standards suggest that the maximum field should be no more than 10m in each direction but in practice, depending on the individual application, it tends to be between 5 to 8m.

See page 61 for guidelines on the use of movement/expansion joints.

TILE TYPES

Ceramic and other tile types vary according to material, production method, water absorption, size, thickness and weight. These affect the choice of adhesive and installation procedure.

Large format tiles should be back-buttered and fixed in a solid bed of adhesive.

For guidelines on adhesive choice see pages 22-27.

MIXING GUIDELINES

All Arc adhesives and grouts come with specific instructions on the bag. In general, powder adhesives and grouts should be mixed with clean, cold water until a smooth paste is achieved.

If using an electric drill mixer, blend at a slow speed. Do not exceed 300rpm.

Mixed adhesive and grout can be remixed after a short period to freshen up but extra water should never be added after the initial mix as this will reduce final strength.

SUBSTRATE PRIMING

Before tiling, most wall and floor substrates require priming. The reasons for priming are:
- To improve the adhesion of cement based products.
- Reduce the porosity of porous substrates.
- To improve adhesion to difficult substrates.
- Produce a barrier between calcium sulphate based surfaces and cement based adhesive to minimise the risk of chemical reaction.

For a detailed substrate priming guide see page 60.

APPLICATION

All packs carry specific instructions, but in general the following apply:
- Do not apply adhesives & grouts in temperatures below 5°C.
- Setting time might be slower in cool conditions and faster in warm conditions.
- Apply a maximum of 1m² of adhesive at a time.
- Ensure tiles are fixed into a solid bed of adhesive. Do not dot and dab adhesive.
- Ensure ribs all run in the same direction.
- Fix tiles before the adhesive forms a skin, typically 20 minutes.
- When grouting, completely fill the tile joints, compact well and ensure there are no voids.

SEALING TILES

Tiles and grout are by their nature porous. To prevent the ingress of water and subsequent damage to the substrate and adhesive bond, tile facings and grout should be sealed with an appropriate sealer.

Likewise, to protect against staining from spills and dirt, facings and grout should be appropriately sealed.

See pages 43-44 for the correct choice of sealer.

EUROPEAN STANDARDS

All Arc products are manufactured in accordance with EUROPEAN STANDARDS and meet or exceed the classifications which define the type and properties of each product.

See page 60 for an explanation and description of each category and classification.

NOTE: All information given is for general guidance only. Arc cannot accept liability for loss or damage caused by the incorrect use of its products or poor workmanship.
The user must ensure the product's suitability for the application intended and if in doubt should seek a written technical specification for the product's application.

ARC BUILDING PRODUCTS
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FLOOR LEVELLING

ARC SELF-LEVEL

√ A high quality floor levelling compound. Gives a free flowing mix.
√ Up to 6mm with addition of water or 8mm with addition of Arc Latex Admixture.
√ Provides a smooth level finish on rough & uneven surfaces.

Size	Colour	Packed	Prod Code	Barcode
20kg	Grey	1 unit	PFLC001	5 391514 610515

FOR APPLICATION TO:
- Concrete
- Screeds
- Backer Boards

Coverage	8m²@1½mm
Pot Life	20 min
Set Time	3 hours
Depth	up to 8mm
EN 13813:2002	CT-C16-F4

ARC HIGHBUILD LEVELLING COMPOUND

√ Suitable for underfloor heating and properly prepared timber floors.
√ High durability, non shrink, for use internally and externally.
√ Fast setting, fibre reinforced, flexible and pumpable levelling compound.
√ From a featheredge to 50mm depth.
√ Foot traffic after 1 hour, tile after 3 hours.
√ Suitable for use as a final wearing course.

Size	Colour	Packed	Prod Code	Barcode
20kg	Grey	1 unit	PFLC003	5 391514 612113

FOR APPLICATION TO:

• Plywood	• Concrete	• Underfloor Heating
• Existing Tiles	• Backer Boards	• Anhydrite Screed
• Screeds	• T&G Floors	• Heated Screed
• Vinyl Tiles	• Fibre Cement	• Asphalt Flooring

Coverage	4.2m²@3mm
Pot Life	20-30 min
Set Time	2-3 hours
Depth	up to 50mm
EN 13813:2002	CT-C30-F7

ARC RAPID-LEVEL

√ Application depth up to 15mm.
√ Foot traffic after 30 minutes.
√ Tile after 45 minutes.
√ Suitable for underfloor heating

Size	Colour	Packed	Prod Code	Barcode
20kg	Buff	1 unit	PFLC004	5 391514 615558

FOR APPLICATION TO:

• Plywood	• Concrete	• Underfloor Heating
• Existing Tiles	• Backer Boards	• Anhydrite Screed
• Screeds	• T&G Floors	• Heated Screed
• Vinyl Tiles	• Fibre Cement	• Asphalt Flooring

Coverage	4.2m²@3mm
Pot Life	15 min
Set Time	30 min
Depth	up to 15mm
EN 13813:2002	CT-C35-F10

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ARC LATEX ADMIXTURE

√ A high quality latex admixture for use with floor levelling compounds, tile adhesives and grouts.

√ When mixed with Arc Self-Level, it can be used to prepare most rigid surfaces prior to the installation of floor coverings such as vinyl, carpet and ceramic floor tiles.

Size	Colour	Packed	Prod Code	Barcode
5lt	White	4 units	LFLC001	5 391514 611109

FOR APPLICATION TO:

- Plywood
- Underfloor Heating
- Render
- Anhydrite Screed
- Heated Screed
- Asphalt Flooring
- Concrete
- Plasterboard
- Brick & Block
- Screeds
- Vinyl Tiles
- Plaster
- Existing Tiles
- Backer Boards
- T&G Floors
- Fibre Cement

Mix Ratio	4/4½lt to 20kg
Pot Life	20-30 min
Set Time	3 hours
Depth	up to 8mm

ARC ACRYLIC DPM

√ Water based, low VOC compliant.

√ Arc Acrylic DPM is a ready to use, one part, water-based moisture vapour suppressant developed to suppress residual construction moisture in cementitious subfloors including concrete and sand/cement screeds.

√ Suitable for new build only.

Size	Colour	Packed	Prod Code	Barcode
5lt	Black	4 units	DPM001	5 391514 613547

FOR APPLICATION TO:

- Concrete
- Floor Levelling Compound
- Screeds

Coverage	16m² for 2 coats
Drying Time	1 hour
Humidity	up to 95% RH

SPIKE ROLLER

√ For use with floor screeds & epoxy resin coatings to remove trapped air bubbles.

Size	Packed	Prod Code	Barcode
500 x 11mm	1 unit	TTSN015	5 021378 047362

Size (WxD)	500mm x 11mm
Handle	Steel

TILING PREPARATION

ARC TILERS PRIMER

√ A high quality styrene butadiene co-polymer emulsion for use as a primer, bonding agent and sealer.
√ Interior & Exterior use.

Size	Colour	Packed	Prod Code	Barcode
5lt	Green	4 units	STP005	5 391514 611062
1lt	Green	12 units	STP006	5 391514 611512

Coverage — 10m²/1lt neat
Mix Ratio — see page 60
Drying(absorbent) — 30-60 min
Drying(non-absorbent) — 60-90 min

FOR APPLICATION TO:

- Plywood
- Underfloor Heating
- Render
- Anhydrite Screed
- Heated Screed
- Asphalt Flooring
- Concrete
- Plasterboard
- Brick & Block
- Screeds
- Vinyl Tiles
- Plaster
- Existing Tiles
- Backer Boards
- T&G Floors
- Fibre Cement

ARC TILERS PRIMER PLUS

√ Provides a textured grit finish to difficult substrates such as existing tiles, prior to tiling.
√ Ready mixed & ready to use.
√ Solvent-free formulation.
√ Interior & Exterior use.

Size	Colour	Packed	Prod Code	Barcode
5kg	Blue	1 unit	STPP001	5 391514 614544

Coverage — 50m²/pack
Drying(absorbent) — 60 min
Drying(non-absorbent) — 120 min

FOR APPLICATION TO:

- Plywood
- Underfloor Heating
- Render
- Anhydrite Screed
- Heated Screed
- Asphalt Flooring
- Concrete
- Plasterboard
- Brick & Block
- Screeds
- Vinyl Tiles
- Plaster
- Existing Tiles
- Backer Boards
- T&G Floors
- Fibre Cement

ARC TANKING PASTE

√ Creates a tough, flexible, waterproof membrane for use under tiles in wet rooms, showers, bathrooms & balconies.
√ Also for use in basements, roofs and silage pits.

Size	Colour	Packed	Prod Code	Barcode
5kg	Blue	1 unit	TAKP001	5 391514 612670

Coverage — 7.5m²/pack
Set Time -1st coat — 60 min
Set Time -2nd coat — 120 min
Tile After — 8 hours

FOR APPLICATION TO:

- Plywood
- Plasterboard
- Brick & Block
- Screeds
- Concrete
- Existing Tiles
- Backer Boards
- Vinyl Tiles
- Plaster
- Render
- Anhydrite Screed
- Fibre Cement

ARC BUILDING PRODUCTS
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ARC TANKING KIT

√ Provides under-tile protection against water and dampness on interior walls and floors in wet rooms, bathrooms, kitchens, showers etc.
√ Suitable for a standard shower.

Size	Packed	Prod Code	Barcode
5m²	1 unit	TAKT001	5 391514 611147

Coverage — 5m²
Tile After — 8 hours
Contents —
• 2½lt Tanking Paste
• 1lt Primer
• 10m Jointing Tape
• 1m² Polyester Matting

FOR APPLICATION TO:
• Plywood
• Plasterboard
• Brick & Block
• Screeds
• Concrete
• Existing Tiles
• Backer Boards
• Vinyl Tiles
• Plaster
• Render
• Anhydrite Screed
• Fibre Cement

ARC TANKING KIT PREMIUM

√ Provides under-tile protection against water and dampness on interior walls and floors in wet rooms, bathrooms, kitchens, showers etc.
√ Suitable for a standard shower.

Size	Packed	Prod Code	Barcode
5m²	1 unit	TAKT003	5 391514 614810

Coverage — 5m²
Tile After — 8 hours
Contents —
• 2½lt Tanking Paste
• 1lt Primer
• 4" Brush
• Latex Gloves
• 5m Self Adhesive Butyl Tape

FOR APPLICATION TO:
• Plywood
• Plasterboard
• Brick & Block
• Screeds
• Concrete
• Existing Tiles
• Backer Boards
• Vinyl Tiles
• Plaster
• Render
• Anhydrite Screed
• Fibre Cement
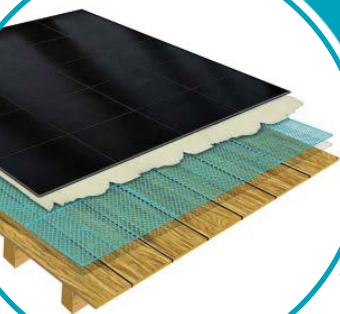
PLASTIC PLY REINFORCING SHEET

√ Reinforcing sheet for timber floors.
√ Self adhesive, ultra thin at 2mm, simple to install, moisture resistant.
√ Can be applied to tongue & groove.
√ Replaces the need to sheet off with 15mm ply.

Size	Colour	Packed	Prod Code	Barcode
1.2m²	Blue	12 units	GXRS001	5 021378 086200

Coverage — 1.2m²/pack
Thickness — 2mm
Application — Self Adhesive

FOR APPLICATION TO:
• Timber Floors
• T&G Floors
• Plywood
• Chipboard

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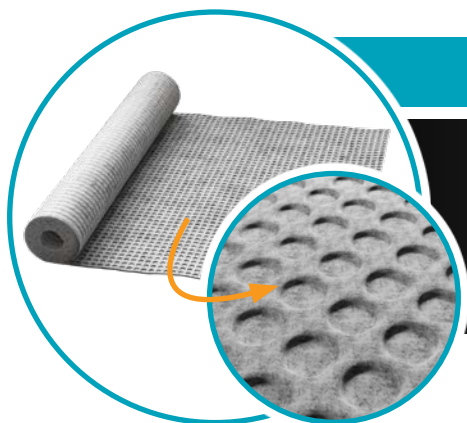
INTERLINX 3GG DECOUPLING MEMBRANE

√ Absorbs substrate stresses protecting the tile installation.
√ 100% Waterproof.
√ The hydrophile fleece removes moisture allowing faster cure.
√ Heat bonded layers ensure secure & durable anchoring.
√ Easy installation. LDPE layer reduces curling.

Size	Colour	Packed	Prod Code	Barcode
1 x 30m	Grey	1 unit	PROL008	5 391514 615343

FOR APPLICATION TO:

- Showers
- Wetrooms
- Pool Areas
- Solid Substrates subject to cracking
- Bathrooms
- Balconies
- Patios
- Underfloor Heating

Size	1m x 30m
Thickness	Approx 3mm
Material	LDPE with PP fleece on both sides
EN	13967
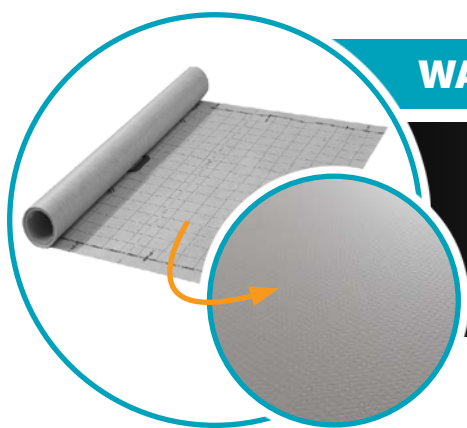
WATERPROOFING & DECOUPLING MEMBRANE

√ As a waterproofing membrane suitable for wetrooms, terraces and balconies.
√ Internal & external. For walls and floors.
√ Highly tear-proof.
√ Excellent rotting resistance.
√ As a decoupling membrane suitable for firm (cracked) substrates.

Size	Colour	Packed	Prod Code	Barcode
1 x 30m	Grey	1 unit	PROL001	5 391514 612892

FOR APPLICATION TO:

- Showers
- Wetrooms
- Pool Areas
- Solid Substrates subject to cracking
- Bathrooms
- Balconies
- Patios
- Underfloor Heating

Size	1m x 30m
Thickness	Approx 0.4mm
Material	Polyethylene with PP fleece on both sides
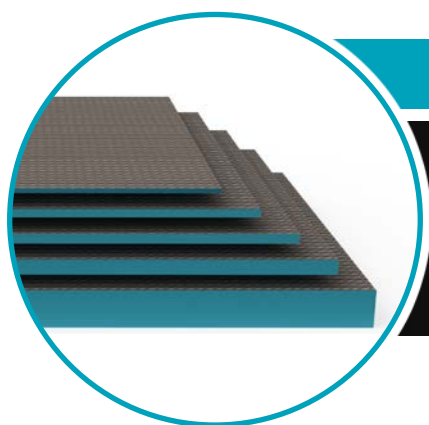
ARC HYDROSET BOARDS

√ An extruded polystyrene foam core sandwiched between mortar/fibreglass outer layers.
√ 100% Waterproof, sturdy, thermally insulating, light weight, compression proof and easy to work with.

Size	Packed	Prod Code	Barcode
1250 x 600 x 6mm	8 units	MTBB002	5 391514 613103
1250 x 600 x 10mm	6 units	MTBB003	5 391514 613110
1250 x 600 x 12.5mm	6 units	MTBB004	5 391514 613127
1250 x 600 x 20mm	5 units	MTBB005	5 391514 613134
1250 x 600 x 50mm	2 units	MTBB006	5 391514 613141

FOR APPLICATION TO:

- Walls
- Solid Substrates
- Rigid Framework
- Floors
- Plasterboard
- Wetrooms
- Bathrooms
- Showers
- Pool Areas

Size	1250 x 600mm
Thickness	6/10/12.5/20/50mm
Material	XPS inner core
U Value	6mm - 4.50 W/m²k 10mm - 2.70 W/m²k 20mm - 1.35 W/m²k
Compressive Strength(@10%)	300kPa
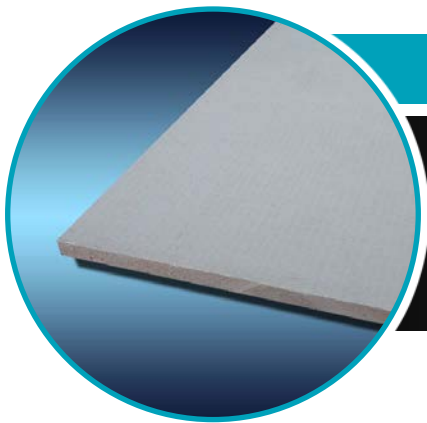
ARC MAGNA BOARDS

√ Magnesium board.
√ Impact resistant, moisture & water resistant.
√ A1 fire rated for wall & floor tiling.
√ Chloride free.
√ Accepts a variety of finishes.
√ Replaces timber and plasterboard.

Size 1200 x 600mm
     1200 x 1200mm
     2400 x 1200mm

Thickness 6mm & 12mm

Size	Packed	Prod Code	Pallet Quantity
1200 x 600 x 6mm	1 unit	ARMB001	160 boards/pallet
1200 x 600 x 12mm	1 unit	ARMB002	80 boards/pallet
1200 x 1200 x 6mm	1 unit	ARMB005	146 boards/pallet
1200 x 1200 x 12mm	1 unit	ARMB006	73 boards/pallet
2400 x 1200 x 6mm	1 pallet	ARMB004	104 boards/pallet
2400 x 1200 x 12mm	1 pallet	ARMB003	52 boards/pallet

FOR APPLICATION TO:

- Walls
- Solid Substrates
- Rigid Framework
- Floors
- Plasterboard
- Laundries
- Kitchen
- Bathrooms
- Fire Partition Walls & Ceilings

HYDROSET BOARD WASHERS

√ For installation of Hydroset boards.

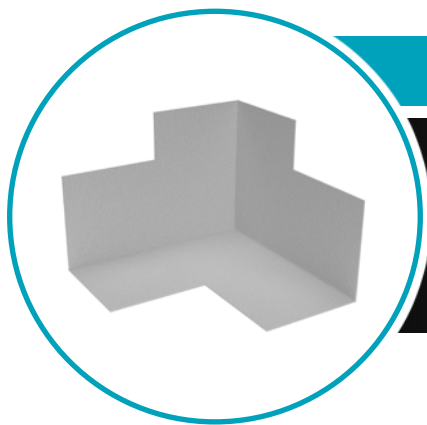| Size	Qty	Packed	Prod Code	Barcode
35mm	100/bag	1 bag	BKWS001	1 094922 265424

Size 35mm diameter
Content 100 per bag

HYDROSET BOARD SCREWS

√ For use with washers for installation of Hydroset boards.
√ Black phosphate.

Size	Qty	Packed	Prod Code	Barcode
3.5 x 32mm	1000/box	1 box	MTSW002	5 902134 704517

Size 3.5mm x 32mm
Content 1000 per box

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INTERNAL CORNER

√ 100% Waterproof.
√ Highly flexible.

Size	Colour	Packed	Prod Code	Barcode
120mm	Grey	1 unit	PROL004	5 391514 612939

Leg Size	120mm
Thickness	Approx 0.7mm
Material	Tri-laminate with fleece both sides
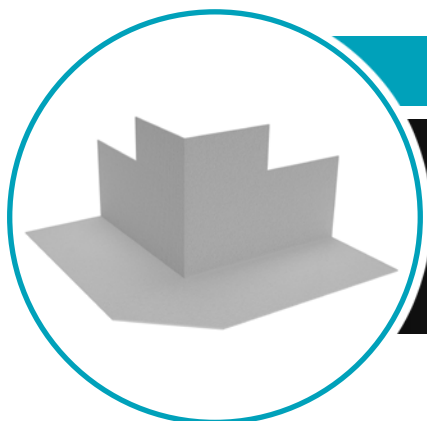
EXTERNAL CORNER

√ 100% Waterproof.
√ Highly flexible.

Size	Colour	Packed	Prod Code	Barcode
110mm	Grey	1 unit	PROL005	5 391514 612922

Leg Size	110mm
Thickness	Approx 0.7mm
Material	Tri-laminate with fleece both sides

ARC SEALING TAPE

√ 100% Waterproof.
√ Highly flexible.
√ For sealing along edges.

Size	Packed	Prod Code	Barcode
120mm x 10m	1 unit	PROL002	5 391514 612908

Size	120mm x 10m
Thickness	Approx 0.7mm
Material	Tri-laminate with fleece both sides

ARC SMART SEAL

√ 100% Waterproof.
√ Highly flexible with tear resistant fleece.
√ For sealing around showertrays and baths.

Size	Packed	Prod Code	Barcode
120mm x 10m	1 unit	ARSS001	5 391514 612502

Size	120mm x 10m
Thickness	Approx 0.7mm
Material	Self adhesive butyl rubber strip

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ARC SELF-ADHESIVE BUTYL TAPE

√ Butyl rubber with tear resistant fleece backing.
√ Extreme bonding strength.
√ 100% Waterproof.
√ For sealing joints, edges and corners.

Size	Packed	Prod Code	Barcode
75mm x 5m	24 units	SELF002	5 391514 614704
100mm x 10m	8 units	PROL003	5 391514 612915

Size   75mm & 100mm
Thickness   0.89mm
Material   Butyl Rubber

FOR APPLICATION TO:

- Showers
- Balconies
- Hospitals
- Bathrooms
- Pool Areas
- Changing Rooms
- Wetrooms
- Laundries

MagnaBoard
Magnesium Oxide Board

High performance building boards offering innovative, sustainable and effective building solutions for new-build, renovation and restoration projects.

Phone: +353 (0)402 32370 • Email: sales@arcbuildingproducts.ie • Web: www.arcbuildingproducts.ie

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ARC HYDROSET SHOWER BASE 900MM X 900MM
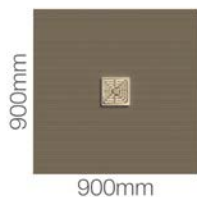
- ✓ An extruded polystyrene foam core sandwiched between mortar/fibre-glass outer layers.
- ✓ Waterproof, sturdy, thermally insulating & low weight.
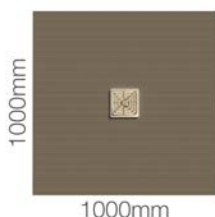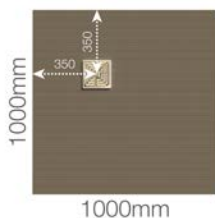- ✓ Use on concrete or wooden floors.
- ✓ Built-in fall.

Size   900 x 900mm
Thickness   20mm
Strength   300kPa

Drain	Packed	Prod Code	Barcode
Centre	1 unit	MTSL002	5 391514 613677

ARC HYDROSET SHOWER BASE 1000MM X 1000MM

- ✓ An extruded polystyrene foam core sandwiched between mortar/fibre-glass outer layers.
- ✓ Waterproof, sturdy, thermally insulating & low weight.
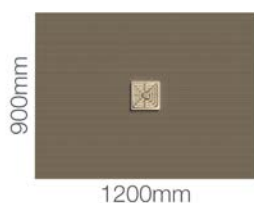- ✓ Use on concrete or wooden floors.
- ✓ Built-in fall.

Size   1000 x 1000mm
Thickness   20mm
Strength   300kPa

Drain	Packed	Prod Code	Barcode
Centre	1 unit	MTSL003	5 391514 613684

ARC HYDROSET SHOWER BASE 1000MM X 1000MM

- ✓ An extruded polystyrene foam core sandwiched between mortar/fibre-glass outer layers.
- ✓ Waterproof, sturdy, thermally insulating & low weight.
- ✓ Use on concrete or wooden floors.
- ✓ Built-in fall.

Size   1000 x 1000mm
Thickness   20mm
Strength   300kPa

Drain	Packed	Prod Code	Barcode
Off-Set	1 unit	MTSL004	5 391514 613691

ARC HYDROSET SHOWER BASE 1200MM X 900MM

- ✓ An extruded polystyrene foam core sandwiched between mortar/fibre-glass outer layers.
- ✓ Waterproof, sturdy, thermally insulating & low weight.
- ✓ Use on concrete or wooden floors.
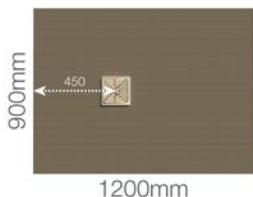- ✓ Built-in fall.

Size   1200 x 900mm
Thickness   20mm
Strength   300kPa

Drain	Packed	Prod Code	Barcode
Centre	1 unit	MTSL005	5 391514 613707

ARC BUILDING PRODUCTS
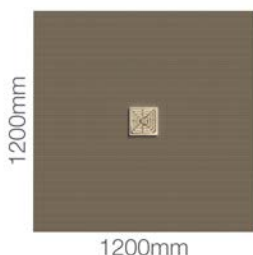We are stronger

ARC HYDROSET SHOWER BASE 1200MM X 900MM

√ An extruded polystyrene foam core sandwiched between mortar/fibre-glass outer layers.
√ Waterproof, sturdy, thermally insulating & low weight.
√ Use on concrete or wooden floors.
√ Built-in fall.

Size   1200 x 900mm
Thickness   20mm
Strength   300kPa

Drain	Packed	Prod Code	Barcode
Off-Set	1 unit	MTSL006	5 391514 613714

ARC HYDROSET SHOWER BASE 1200MM X 1200MM

√ An extruded polystyrene foam core sandwiched between mortar/fibre-glass outer layers.
√ Waterproof, sturdy, thermally insulating & low weight.
√ Use on concrete or wooden floors.
√ Built-in fall.

Size   1200 x 1200mm
Thickness   20mm
Strength   300kPa

Drain	Packed	Prod Code	Barcode
Centre	1 unit	MTSL007	5 391514 613721

ARC HYDROSET SHOWER BASE 1200MM X 1200MM
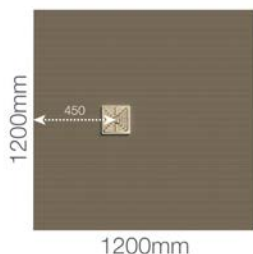
√ An extruded polystyrene foam core sandwiched between mortar/fibre-glass outer layers.
√ Waterproof, sturdy, thermally insulating & low weight.
√ Use on concrete or wooden floors.
√ Built-in fall.

Size   1200 x 1200mm
Thickness   20mm
Strength   300kPa

Drain	Packed	Prod Code	Barcode
Off-Set	1 unit	MTSL008	5 391514 613738

ARC HYDROSET SHOWER BASE 1300MM X 800MM

√ An extruded polystyrene foam core sandwiched between mortar/fibre-glass outer layers.
√ Waterproof, sturdy, thermally insulating & low weight.
√ Use on concrete or wooden floors.
√ Built-in fall.

Size   1300 x 800mm
Thickness   20mm
Strength   300kPa

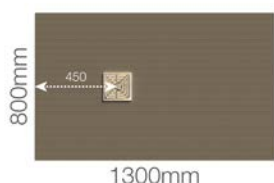| Drain	Packed	Prod Code	Barcode
Off-Set	1 unit	MTSL009	5 391514 613745

ARC HYDROSET SHOWER BASE 1500MM X 800MM

√ An extruded polystyrene foam core sandwiched between mortar/fibre-glass outer layers.
√ Waterproof, sturdy, thermally insulating & low weight.
√ Use on concrete or wooden floors.
√ Built-in fall.

Size   1500 x 800mm
Thickness   24mm
Strength   300kPa

Drain	Packed	Prod Code	Barcode
Off-Set	1 unit	MTSL010	5 391514 613752

ARC HYDROSET SHOWER BASE 1500MM X 1500MM

√ An extruded polystyrene foam core sandwiched between mortar/fibre-glass outer layers.
√ Waterproof, sturdy, thermally insulating & low weight.
√ Use on concrete or wooden floors.
√ Built-in fall.

Size   1500 x 1500mm
Thickness   24mm
Strength   300kPa

Drain	Packed	Prod Code	Barcode
Centre	1 unit	MTSL011	5 391514 613769

ARC HYDROSET SHOWER BASE 1850MM X 900MM

√ An extruded polystyrene foam core sandwiched between mortar/fibre-glass outer layers.
√ Waterproof, sturdy, thermally insulating & low weight.
√ Use on concrete or wooden floors.
√ Built-in fall.

Size   1850 x 900mm
Thickness   24mm
Strength   300kPa

Drain	Packed	Prod Code	Barcode
Off-Set	1 unit	MTSL012	5 391514 613776

ARC HYDROSET LINEAR SHOWER BASE 1200MM X 900MM
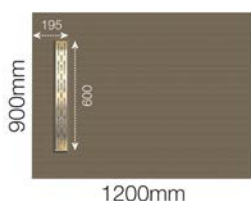
√ An extruded polystyrene foam core sandwiched between mortar/fibre-glass outer layers.
√ Waterproof, sturdy, thermally insulating & low weight.
√ Use on concrete or wooden floors.
√ Built-in fall.

Size   1200 x 900mm
Thickness   30mm
Strength   300kPa

Drain	Packed	Prod Code	Barcode
Linear	1 unit	LIDR002	5 391514 614117

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ARC HYDROSET LINEAR SHOWER BASE 1500MM X 900MM
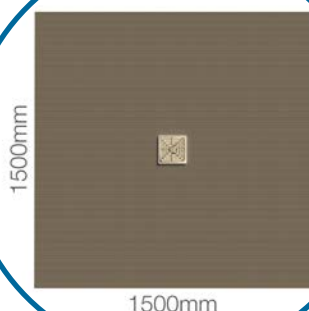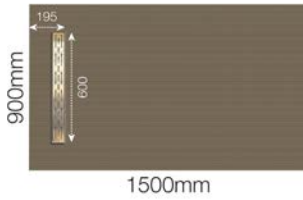
✓ An extruded polystyrene foam core sandwiched between mortar/fibre-glass outer layers.
✓ Waterproof, sturdy, thermally insulating & low weight.
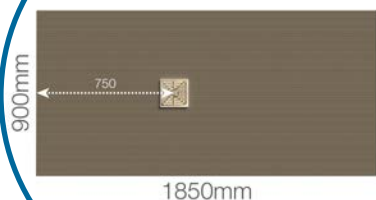✓ Use on concrete or wooden floors.
✓ Built-in fall.

Size   1500 x 900mm
Thickness   30mm
Strength   300kPa

Drain	Packed	Prod Code	Barcode
Linear	1 unit	LIDR003	5 391514 614124

ARC HYDROSET SHOWER BASE DRAIN

✓ Horizontal Drain for use with Arc Hydroset Shower Bases.

Suitability	Packed	Prod Code	Barcode
All Regular	1 unit	MTDR001	5 391514 613783

Size   150 x 150mm
Flow Rate   30lt/min

RISER

✓ For use with Arc Hydroset Shower Base Drain when using thicker tiles and additional height is required.

Height	Packed	Prod Code	Barcode
8mm	1 unit	RIDR001	N/A

Size   150 x 150mm
Thickness   8mm

ARC HYDROSET LINEAR SHOWER BASE DRAIN

✓ Linear Drain for use with Arc Hydroset Linear Shower Bases.

Suitability	Packed	Prod Code	Barcode
All Linear	1 unit	LIDR001	5 391514 614131

Size   600 x 60mm
Flow Rate   30lt/min

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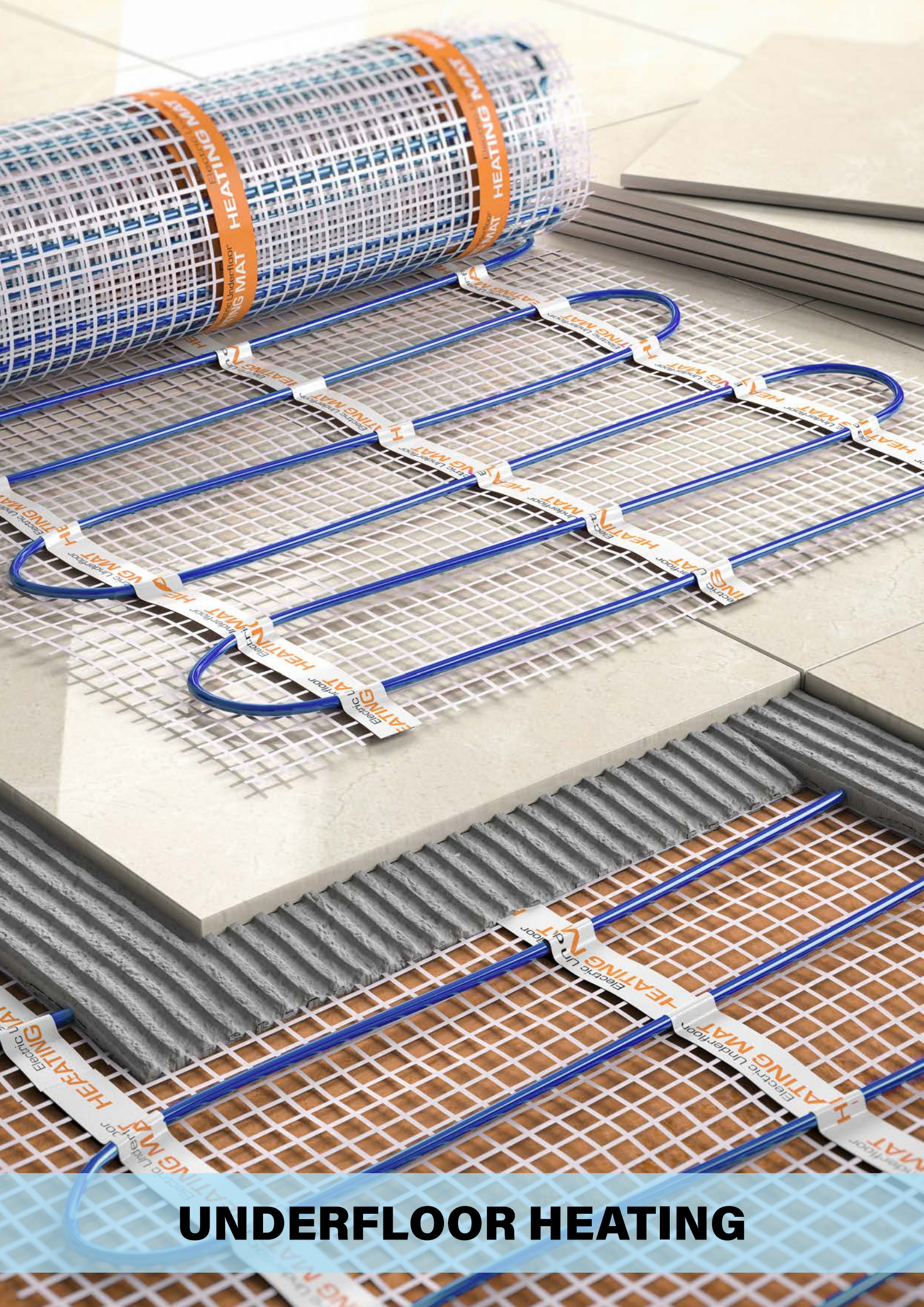
UNDERFLOOR HEATING

UNDERFLOOR HEATING MATS
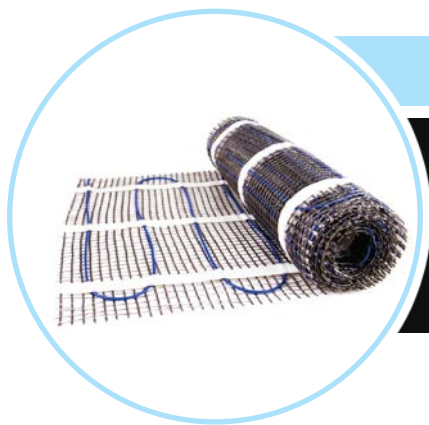
✓ Designed with adhesive backed mesh for easy application.
✓ Suitable for wooden and concrete substrates.

Size   1m² to 12m²
Power   100W/m²

Size	Size(m²) / Power Output	Boxed	Code
2m x 0.5m	1m² / 100W	1 unit	UNHM029
3m x 0.5m	1.5m² / 150W	1 unit	UNHM001
4m x 0.5m	2m² / 200W	1 unit	UNHM002
5m x 0.5m	2.5m² / 250W	1 unit	UNHM003
6m x 0.5m	3m² / 300W	1 unit	UNHM004
7m x 0.5m	3.5m² / 350W	1 unit	UNHM005
8m x 0.5m	4m² / 400W	1 unit	UNHM006
9m x 0.5m	4.5m² / 450W	1 unit	UNHM007
10m x 0.5m	5m² / 500W	1 unit	UNHM008
12m x 0.5m	6m² / 600W	1 unit	UNHM009
14m x 0.5m	7m² / 700W	1 unit	UNHM010
16m x 0.5m	8m² / 800W	1 unit	UNHM011
18m x 0.5m	9m² / 900W	1 unit	UNHM012
20m x 0.5m	10m² / 1000W	1 unit	UNHM030
22m x 0.5m	11m² / 1100W	1 unit	UNHM031
24m x 0.5m	12m² / 1200W	1 unit	UNHM032

DIGITAL THERMOSTAT

✓ Digital thermostat and timer for use with underfloor heating mats.
✓ Wi-Fi App enabled with power consumption meter.
✓ Alexa and Google Assistant compatible.

Colour   White
Fuse   16A

Suitability	Boxed	Code	Barcode
Heating Mats	1 unit	UNHT001	n/a

FLEXIBLE CONDUIT

✓ For protection of underfloor heating probe.

Suitability	Packed	Prod Code	Barcode
1m x 13mm	1 unit	UNHC001	n/a

Size   1m x 13mm
Colour Black

ARC BUILDING PRODUCTS
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POWDER TILE ADHESIVES

ARC RAPID-SET

✓ Interior & exterior applications.
✓ Water and frost resistant.
✓ High strength and grab.
✓ A grey cement based adhesive for fixing floor tiles to concrete floors.

Size	Colour	Packed	Prod Code	Barcode
20kg	Grey	1 unit	TAFS001	5 391514 610324
10kg	Grey	1 unit	TAFS002	5 391514 610331

FOR APPLICATION TO:

- Concrete
- Gypsum Plaster
- Screeds
- Render
- Brick & Block
- Backer Boards

FOR FIXING:

- Ceramics
- Terracotta
- Mosaics
- Quarry

	Coverage	4-5m²/20kg
	Pot Life	30-40 min
	Set Time	2-3 hours
	Depth	3-6mm
EN	12004	C1F
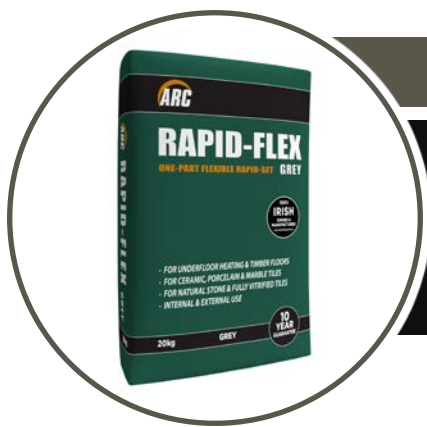
ARC RAPID-FLEX GREY

✓ Interior & exterior applications.
✓ For most tile types and substrates.
✓ Suitable for use with underfloor heating and tile on tile applications.
✓ Suitable for tiling onto properly prepared plywood floors.
✓ Grout and light foot traffic after 3 hours approximately, depending on conditions.

Size	Colour	Packed	Prod Code	Barcode
20kg	Grey	1 unit	TAFR001	5 391514 610409
10kg	Grey	1 unit	TAFR002	5 391514 610416

FOR APPLICATION TO:

Plywood, Concrete, Plaster, Screeds, Backer Boards, Anhydrite Screed, Underfloor Heating, Plasterboard, Existing Tiles, Render, Brick & Block, Heated Screed, Vinyl Tiles, Fibre Cement, Asphalt Flooring.

FOR FIXING:

Porcelain, Ceramics, Terracotta, Quarry, Quartz, Marble, Mosaics, Limestone, Travertine, Natural Stone, Slate.

	Coverage	4-5m²/20kg
	Pot Life	30-40 min
	Set Time	2-3 hours
	Depth	3-6mm
EN	12004	C2FS1
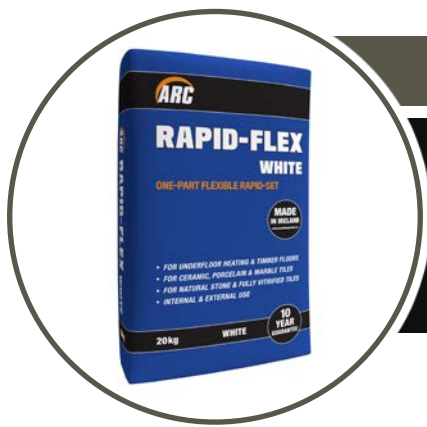
ARC RAPID-FLEX WHITE

✓ Interior & exterior applications.
✓ For most tile types and substrates.
✓ Suitable for use with underfloor heating and tile on tile applications.
✓ Suitable for tiling onto properly prepared plywood floors.
✓ Grout and light foot traffic after 3 hours approximately, depending on conditions.

Size	Colour	Packed	Prod Code	Barcode
20kg	White	1 unit	FAFR003	5 391514 610430

FOR APPLICATION TO:

Plywood, Concrete, Plaster, Screeds, Backer Boards, Anhydrite Screed, Underfloor Heating, Plasterboard, Existing Tiles, Render, Brick & Block, Heated Screed, Vinyl Tiles, Fibre Cement, Asphalt Flooring.

FOR FIXING:

Porcelain, Ceramics, Terracotta, Quarry, Quartz, Glass, Marble, Mosaics, Limestone, Travertine, Natural Stone, Slate.

	Coverage	4-5m²/20kg
	Pot Life	30-40 min
	Set Time	2-3 hours
	Depth	3-6mm
EN	12004	C2FS1

ARC BUILDING PRODUCTS
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ARC ULTRA-FLEX S2

- √ Interior & exterior applications.
- √ For natural stone & fully vitrified tiles.
- √ For green screeds.
- √ Flexible Rapid Setting Tile Adhesive.
- √ For underfloor heating & properly prepared timber floors.
- √ Suitable for cladding with Arc Tilers Primer Plus.

Size	Colour	Packed	Prod Code	Barcode
20kg	Grey	1 unit	ULFL001	5 391514 613585

FOR APPLICATION TO:

Plywood, Concrete, Plaster, Screeds, Backer Boards, Anhydrite Screed, Underfloor Heating, Plasterboard, Existing Tiles, Render, Brick & Block, Heated Screed, Vinyl Tiles, Fibre Cement, Asphalt Flooring, Around Swimming Pools.

FOR FIXING:

Porcelain, Ceramics, Terracotta, Quarry, Quartz, Marble, Mosaics, Limestone, Travertine, Natural Stone, Slate.

Coverage	4-5m²/20kg
Pot Life	30 min
Set Time	3 hours
Depth	3-6mm
EN 12004	C2FS2
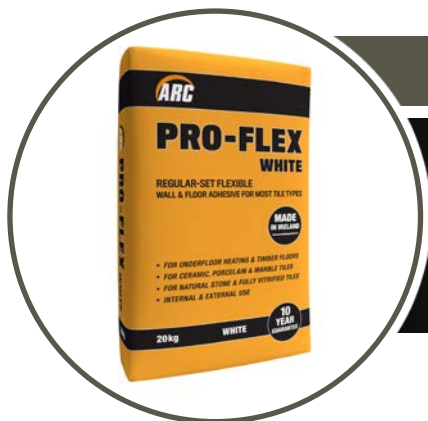
ARC PRO-FLEX

- √ Interior & exterior applications.
- √ Water resistant when set and may be used in swimming pools.
- √ Suitable for use with underfloor heating and properly prepared timber floors.
- √ A white flexible regular setting wall and floor adhesive.

Size	Colour	Packed	Prod Code	Barcode
20kg	White	1 unit	TAWC002	5 391514 610799

FOR APPLICATION TO:

Plywood, Concrete, Plaster, Screeds, Backer Boards, Anhydrite Screed, Underfloor Heating, Plasterboard, Existing Tiles, Render, Brick & Block, Heated Screed, Vinyl Tiles, Fibre Cement, Asphalt Flooring.

FOR FIXING:

Porcelain, Ceramics, Terracotta, Quarry, Quartz, Glass, Marble, Mosaics, Limestone, Travertine, Natural Stone, Slate.

Coverage	4-5m²/20kg
Pot Life	4-5 hours
Set Time	24 hours
Depth	3-6mm
EN 12004	C2TES1
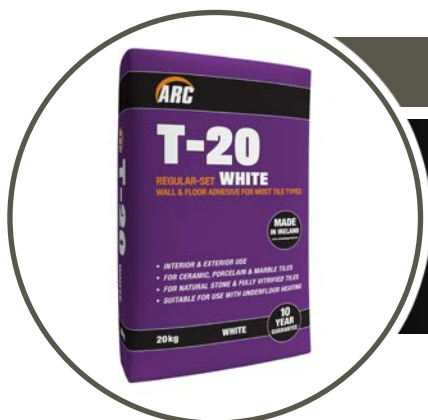
ARC T-20

- √ The adhesive when set is water resistant and may be used in swimming pools.
- √ Suitable for use with underfloor heating and vertical timber surfaces.
- √ A white regular setting wall and floor adhesive for internal and external locations.

Size	Colour	Packed	Prod Code	Barcode
20kg	White	1 unit	TAT2001	5 391514 611796

FOR APPLICATION TO:

Plywood, Concrete, Plaster, Screeds, Backer Boards, Anhydrite Screed, Underfloor Heating, Plasterboard, Existing Tiles, Render, Brick & Block, Heated Screed, Vinyl Tiles, Fibre Cement, Asphalt Flooring.

FOR FIXING:

Porcelain, Ceramics, Terracotta, Quarry, Quartz, Glass, Marble, Mosaics, Limestone, Travertine, Natural Stone, Slate.

Coverage	4-5m²/20kg
Pot Life	4-5 hours
Set Time	24 hours
Depth	3-6mm
EN 12004	C2TE

ARC HIGH-FLEX 55 STANDARD SET WHITE

√ Flexible, regular-setting, cement-based, highly polymer modified, thin-bed ceramic tile adhesive.

√ It has improved flexural strength, water-resistance and is suitable for swimming pools, underfloor heating applications and both interior & exterior use.

√ Ideal for use with translucent and very porous tiles.

Size	Colour	Packed	Prod Code	Barcode
20kg	White	1 unit	HFLE001	5 391514 614926

FOR APPLICATION TO:

Plywood, Concrete, Plaster, Screeds, Backer Boards, Anhydrite Screed, Underfloor Heating, Plasterboard, Existing Tiles, Render, Brick & Block, Heated Screed, Vinyl Tiles, Fibre Cement, Asphalt Flooring.

FOR FIXING:

Porcelain, Ceramics, Terracotta, Quarry, Quartz, Glass, Marble, Mosaics, Limestone, Travertine, Natural Stone, Slate.

Coverage	4-5m²/20kg
Pot Life	4-5 hours
Set Time	24 hours
Depth	up to 10mm
EN 12004	C2TES1

ARC HIGH-FLEX 55 RAPID SET GREY

√ Flexible, rapid-setting, cement-based, highly polymer modified, thin-bed ceramic tile adhesive.

√ It has improved flexural strength, water-resistance and is suitable for swimming pools, underfloor heating applications and exterior use.

Size	Colour	Packed	Prod Code	Barcode
20kg	Grey	1 unit	HFLE002	5 391514 614902

FOR APPLICATION TO:

Plywood, Concrete, Plaster, Screeds, Backer Boards, Anhydrite Screed, Underfloor Heating, Plasterboard, Existing Tiles, Render, Brick & Block, Heated Screed, Vinyl Tiles, Fibre Cement, Asphalt Flooring.

FOR FIXING:

Porcelain, Ceramics, Terracotta, Quarry, Quartz, Marble, Mosaics, Limestone, Travertine, Natural Stone, Slate.

Coverage	4-5m²/20kg
Pot Life	30-40 min
Set Time	2-3 hours
Depth	up to 10mm
EN 12004	C2FS1

ARC HIGH-FLEX 55 RAPID SET WHITE

√ Flexible, rapid-setting, cement-based, highly polymer modified, thin-bed ceramic tile adhesive.

√ It has improved flexural strength, water-resistance and is suitable for swimming pools, underfloor heating applications and exterior use.

√ Ideal for use with translucent and very porous tiles.

Size	Colour	Packed	Prod Code	Barcode
20kg	White	1 unit	HFLE003	5 391514 614919

FOR APPLICATION TO:

Plywood, Concrete, Plaster, Screeds, Backer Boards, Anhydrite Screed, Underfloor Heating, Plasterboard, Existing Tiles, Render, Brick & Block, Heated Screed, Vinyl Tiles, Fibre Cement, Asphalt Flooring.

FOR FIXING:

Porcelain, Ceramics, Terracotta, Quarry, Quartz, Glass, Marble, Mosaics, Limestone, Travertine, Natural Stone, Slate.

Coverage	4-5m²/20kg
Pot Life	30-40 min
Set Time	2-3 hours
Depth	up to 10mm
EN 12004	C2FS1

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READY MIXED TILE ADHESIVES

ARC-FIX WALL TILE ADHESIVE

√ A ready-mixed acrylic adhesive for fixing ceramic wall tiles and mosaics in internal locations such as kitchens and bathrooms.

√ Suitable for domestic showers where a good waterproof grout is used.

Size	Colour	Packed	Prod Code	Barcode
16kg	White	1 unit	TANS001	5 391514 610355
7.5kg	White	1 unit	TANS002	5 014205 001200
3.75kg	White	1 unit	TANS003	5 014205 001217

FOR APPLICATION TO:

Concrete, Plaster, Backer Boards, Plasterboard, Existing Tiles, Brick & Block.

FOR FIXING:

Ceramics, Mosaics.

Coverage	2-3kg/m²
Pot Life	20 min
Set Time	24 hours
Depth	2-3mm
EN 12004	D1TE

FIX & GROUT

√ Waterproof, ready-mixed, thin-bed adhesive and grout for use with ceramic tiles.

Size	Colour	Packed	Prod Code	Barcode
3.75kg	White	1 unit	TEFG003	5 014205 001590
1.5kg	White	12 units	TEFG002	5 014205 000173
750g	White	12 units	TEFG001	5 014205 000180

FOR APPLICATION TO:

Concrete, Plaster, Plasterboard, Cement.

FOR FIXING:

Ceramics, Mosaics.

Coverage	1.4kg/m²
Pot Life	20 min
Set Time	24 hours
Depth	up to 3mm
EN 12004	D2T

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GROUTS

ARC PRO-LINE WALL & FLOOR GROUT

√ A highly versatile cement based wall & floor grout containing anti mould technology.

√ Rapid setting, mould, water & stain resistant, flexible.

√ Contains 30% recycled materials.

√ Suitable for interior and exterior use.

	Joint Width	2 to 15mm
	Pot Life	20 min
	Set Time	3-4 hours
EN	13888	CG2WA

Coverage(5kg) - 3mm joint:

- 24 x 24 x 10mm mosaic - 1.2m²
- 150 x 150 x 8mm tile - 10m²
- 300 x 300 x 10mm tile - 16m²
- 600 x 600 x 10mm tile - 30m²

Coverage(5kg) - 12mm joint:

- 24 x 24 x 10mm mosaic - 0.3m²
- 150 x 150 x 8mm tile - 2.5m²
- 300 x 300 x 10mm tile - 4m²
- 600 x 600 x 10mm tile - 7.5m²

Size	Colour	Packed	Prod Code	Barcode
5kg	Mid Grey	1 unit	PROG001	5 391514 612557
2.5kg	Mid Grey	1 unit	PROG002	5 391514 612649
5kg	Ivory	1 unit	PROG003	5 391514 613035
2.5kg	Ivory	1 unit	PROG004	5 391514 612663
5kg	White	1 unit	PROG005	5 391514 612564
2.5kg	White	1 unit	PROG006	5 391514 612656
5kg	Silver Grey	1 unit	PROG010	5 391514 613042
2.5kg	Silver Grey	1 unit	PROG014	5 391514 614803
5kg	Dark Grey	1 unit	PROG013	5 391514 614780
5kg	Beige	1 unit	PROG007	5 391514 612632
5kg	Brown	1 unit	PROG008	5 391514 613059
5kg	Charcoal	1 unit	PROG009	5 391514 612625
5kg	Limestone	1 unit	PROG011	5 391514 613066
5kg	Sandstone	1 unit	PROG012	5 391514 613073

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ARC PRO-LINE SILICONE

√ Premium grade sealant developed to compliment the Pro-Line Grout range.
√ Low modulus, neutral curing.
√ 100% Silicone, non staining.
√ No odour.
√ 10 Matching Colours with Pro-Line Grout.

Joint Width — up to 30mm

Yield:
- 5mm x 5mm - approx 12m
- 10mm x 10mm - approx 3m

Suitable for:

All tiles, including marble and natural stone, metals, painted surfaces, sanitary ware, glass, plaster, brick and many other porous and non-porous surfaces.

Size	Colour	Packed	Prod Code	Barcode
310ml	Mid Grey	12 units	PRSI001	5 391514 613479
310ml	White	12 units	PRSI002	5 391514 613479
310ml	Ivory	12 units	PRSI003	5 391514 613479
310ml	Silver Grey	12 units	PRSI004	5 391514 613479
310ml	Brown	12 units	PRSI005	5 391514 613479
310ml	Beige	12 units	PRSI006	5 391514 613479
310ml	Limestone	12 units	PRSI007	5 391514 613479
310ml	Sandstone	12 units	PRSI008	5 391514 613479
310ml	Charcoal	12 units	PRSI009	5 391514 613479
310ml	Dark Grey	12 units	PRSI010	5 391514 613479

ARC FLEXI-GROUT

√ Suitable for all tile types and substrates.
√ Mould & stain resistant flexible wide joint floor grout.

Size	Colour	Packed	Prod Code	Barcode
10kg	Grey	1 unit	MRGG002	5 391514 611857

Joint Width — up to 20mm
Pot Life — 45-60 min
Set Time — 24 hours
EN 13888 — CG2

Coverage(10kg) - 3mm joint:
- 24 x 24 x 10mm mosaic - 2.4m²
- 150 x 150 x 8mm tile - 20m²
- 300 x 300 x 10mm tile - 32m²
- 600 x 600 x 10mm tile - 60m²

Coverage(10kg) - 5mm joint:
- 24 x 24 x 10mm mosaic - 1.6m²
- 150 x 150 x 8mm tile - 12m²
- 300 x 300 x 10mm tile - 20m²
- 600 x 600 x 10mm tile - 40m²

ARC WALL TILE GROUT

√ Suitable for use in kitchens and bathrooms.
√ A cement based, water resistant, internal & external wall grout suitable for joints up to 3mm.
√ Mould & stain resistant.

Size	Colour	Packed	Prod Code	Barcode
10kg	White	1 unit	TAGW001	5 391514 611819
500g	White	12 units	TAGW004	5 010789 853228

Joint Width — up to 3mm
Pot Life — 45-60 min
Set Time — 24 hours
EN 13888 — CG1

Coverage(10kg) - 3mm joint:
- 24 x 24 x 10mm mosaic - 2.4m²
- 300 x 300 x 10mm tile - 32m²
- 150 x 150 x 8mm tile - 20m²
- 600 x 600 x 10mm tile - 60m²

TRIMS, SEALS & SPACERS

ARC PVC ROUND EDGE TRIM

√ A good quality PVC tile trim with good flexibility.

Profile	PVC
Profile Thickness	1mm
Length	2.5m

Size	Colour	Packed	Prod Code	Barcode
6mm	White	100's	TTDT001	5 391514 610997
8mm	White	100's	TTDT002	5 391514 611000
10mm	White	100's	TTDT003	5 391514 611017
12mm	White	100's	ARTT007	5 391514 611024
10mm	Ivory	100's	TTDT006	5 391514 611680
12mm	Ivory	100's	ARTT009	5 391514 611697
6mm	Soft Cream	100's	TTDT007	5 391514 611703
8mm	Soft Cream	100's	TTDT008	5 391514 611710
10mm	Soft Cream	100's	TTDT009	5 391514 611727
12mm	Soft Cream	100's	ARTT008	5 391514 611734
8mm	Black	80's	TTPT008	5 021378 017006
10mm	Black	50's	TTPT013	5 021378 015569
12mm	Black	50's	TTPT015	5 021378 016023
12mm	Grey	60's	TTGR001	5 021378 015972

ARC PVC STRAIGHT EDGE TRIM

√ A high quality PVC straight edge trim.

Profile	PVC
Profile Thickness	3mm
Length	2.5m

Size	Colour	Packed	Prod Code	Barcode
8mm	White	100's	TTSE010	5 391514 614551
10mm	White	100's	TTSE001	5 391514 613493
12mm	White	100's	TTSE003	5 391514 613486
8mm	Soft Cream	100's	TTSE011	5 391514 614568
10mm	Soft Cream	100's	TTSE002	5 391514 613516
12mm	Soft Cream	100's	TTSE004	5 391514 613509
10mm	Grey	100's	TTSE014	5 021378 012025
12mm	Grey	100's	TTSE016	5 021378 012131

ALUMINIUM ROUND EDGE TRIM

✓ A high quality metal round edge tile trim.
✓ Designed to protect the edge of ceramic or similar hard surface in wall or floor installations.

Size	Colour	Packed	Prod Code	Barcode
8mm	Chrome	20's	ARTT001	5 391514 611031
10mm	Chrome	20's	ARTT002	5 391514 611048
12mm	Chrome	20's	ARTT003	5 391514 611055

Profile	Aluminium
Profile Thickness	1.2mm
Length	2.5m

ALUMINIUM STRAIGHT EDGE TRIM

✓ A high quality metal straight edge tile trim.
✓ Designed to protect corners avoiding the unsightly and fragile 45º cut.
✓ The defined square edge clearly outlines coverings such as rectified porcelain stoneware.
✓ Available in different finishes, these profiles offer a practical and aesthetic solution, ideal for walls and floors.

Size	Colour	Packed	Prod Code	Barcode
8mm	Chrome	20's	ARTT004	5 391514 611079
10mm	Chrome	20's	ARTT005	5 391514 611086
12mm	Chrome	20's	ARTT006	5 391514 611093
8mm	Matt Silver	20's	ARTT010	5 391514 611635
10mm	Matt Silver	20's	ARTT011	5 391514 611642
12mm	Matt Silver	20's	ARTT012	5 391514 611659
8mm	Brushed	20's	TTBA004	5 391514 613455
12mm	Brushed	20's	TTBA006	5 391514 613165
10mm	Black	20s	TTSE007	5 021378 085036
12mm	Black	20s	TTSE008	5 021378 085043
10mm	Gold	20s	TTBB001	5 021378 011165
12mm	Gold	20s	TTBB002	5 021378 011271

Profile	Aluminium
Profile Thickness	3mm
Length	2.5m

CONTRACTORS STRAIGHT EDGE TRIM
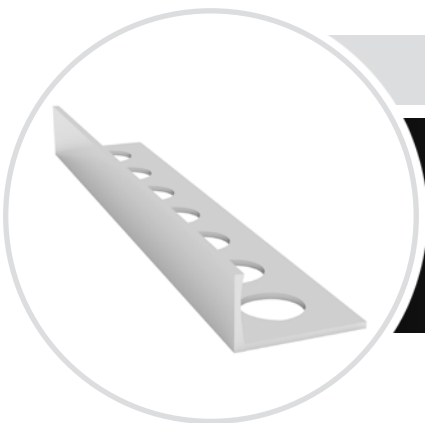
✓ Straight edge trim with a chrome finish.

Size	Colour	Packed	Prod Code	Barcode
8mm	Chrome	50's	ATCT001	5 391514 613639
10mm	Chrome	50's	ATCT002	5 391514 613646
12mm	Chrome	50's	ATCT003	5 391514 613653

Profile	Aluminium
Profile Thickness	1mm
Length	2.5m

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TRADE ALUMINIUM STRAIGHT EDGE TRIM

√ A good quality metal straight edge trim.

Size	Colour	Packed	Prod Code	Barcode
8mm	Chrome	20s	ATST001	5 391514 613172
10mm	Chrome	20s	ATST002	5 391514 613189
12mm	Chrome	20s	ATST003	5 391514 613196
8mm	Matt Silver	20s	ATST004	5 391514 615459
10mm	Matt Silver	20s	ATST005	5 391514 615466
12mm	Matt Silver	20s	ATST006	5 391514 615473
8mm	Brushed	20s	ATST007	5 391514 615480
10mm	Brushed	20s	ATST008	5 391514 615497
12mm	Brushed	20s	ATST009	5 391514 615503

Profile — Aluminium
Profile Thickness — 2.5mm
Length — 2.5m
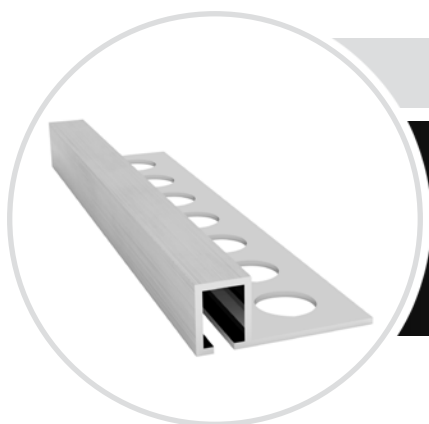
SQUARE METAL TRIM (TDP)

√ An alternative to an ordinary straight edge or L angle Aluminium Profile, the TDP offers a more luxurious finish to any edge. It can be used as an edge trim on the vertical with wall tiles or on the horizontal with Floor tiles or even as a feature strip in wall or floor applications.

√ The extruded Aluminium profile gives a square appearance when installed.

Size	Colour	Packed	Prod Code	Barcode
10mm	Chrome	20's	ALSQ002	5 391514 613202
10mm	Brushed	20's	ALSQ001	5 021378 075914
12mm	Chrome	20's	ALSQ003	5 391514 613219
12mm	Brushed	20's	ALSQ004	5 021378 075921

Profile — Aluminium
Profile Thickness — 1mm
Length — 2.5m
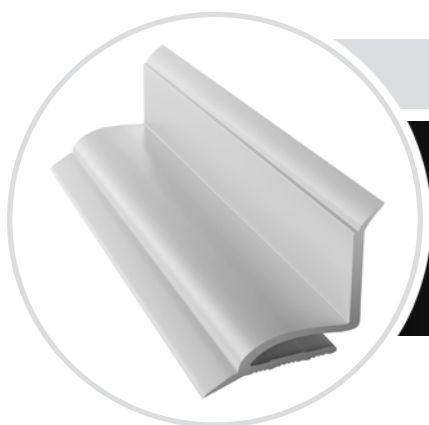
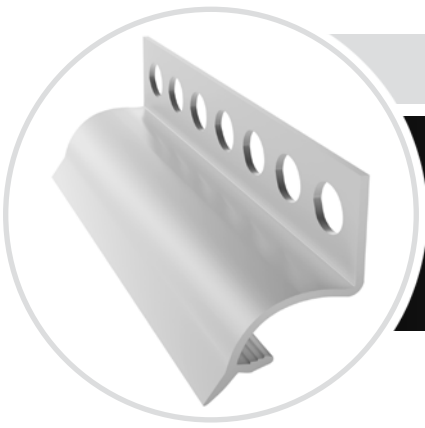# ARC BATH SEAL PLUS

√ A co-extruded bath seal with supportive leg for easy installation.
√ Flexible fin absorbs slight movement.

Length	Colour	Packed	Prod Code	Barcode
1.8m	White	50's	ATSE002	5 391514 612199

Size(WxH) — 20mm x 19mm
Profile — PVC
Profile Thickness — 1.2mm

ARC BUILDING PRODUCTS
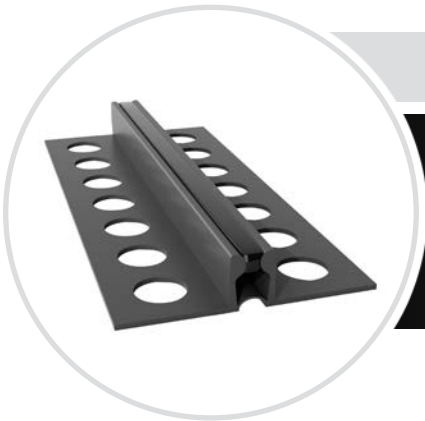We are stronger

ARC BATH SEAL TILEOVER

√ A larger profile bath seal designed to bridge greater gaps than Seal Plus.

√ Flexible fin absorbs slight movement.

Length	Colour	Packed	Prod Code	Barcode
1.8m	White	25's	ATSE001	5 391514 612205

	Size(W)	23mm
	Profile	PVC
	Profile Thickness	1mm

PVC EXPANSION JOINTS

√ PVC Movement Joint with highly durable blend of PVC/Rubber infill offering protection to the edge of the floor covering for pedestrian and light mechanical traffic, foot trolley etc.

√ Detachable anchor so it can be used as either a perimeter or movement joint.

Size	Colour	Packed	Prod Code	Barcode
10mm	Black	25's	PMJG002	5 021378 051680
10mm	Dark Grey	25's	PMJG003	5 021378 051697
10mm	Beige	25's	PJMG004	5 021378 073293
12.5mm	Black	25's	PMJG004	5 021378 051703
12.5mm	Dark Grey	25's	TTVJ001	5 021378 051710

	Profile	PVC
	Infill Width	9mm
	Length	2.5m

ALUMINIUM EXPANSION JOINTS
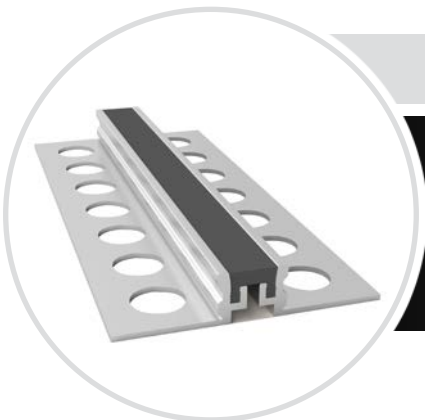
√ The use of Santoprene as a movement accommodation material offers an outstanding flexibility, chemical and weathering resistance, in addition the tensile strength is a contributing factor to the durability.

√ The Anchoring angles are Aluminium grade 6063 T6, which is Heat Treated to increase tensile strength.

Size	Colour	Packed	Prod Code	Barcode
10mm	Black	10's	AMJG002	5 021378 055060
10mm	Dark Grey	10's	AMJG001	5 021378 055084
12mm	Black	10's	AMJG005	5 021378 055091
12mm	Dark Grey	10's	AMJG003	5 021378 055114

	Profile	Aluminium
	Infill Width	9.8mm
	Length	2.5m

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ARC TILE SPACERS

√ Spacers for tiling.

Material	Plastic
Size	1 to 5mm
Qty per bag	1mm - 500pcs
	2mm - 250pcs
	3mm - 250pcs
	4mm - 250pcs
	5mm - 100pcs

Size	Colour	Packed	Prod Code	Barcode
1mm	White	50 bags	TTTS005	5 021378 080093
2mm	White	25 bags	TTTS001	5 391514 610966
3mm	White	25 bags	TTTS002	5 391514 610973
4mm	White	25 bags	TTTS008	5 021378 000152
5mm	White	50 bags	TTTS003	5 391514 610980

T-SPACERS

√ T Spacers for tiling.

Material	Plastic
Size	2mm
Qty per bag	2mm - 250pcs

Size	Colour	Packed	Prod Code	Barcode
2mm	White	25 bags	TTTS009	5 021378 088839

WEDGES

√ For use in precision tiling.
√ 0 to 7mm.

Material	Plastic
Size	0 - 7mm
Qty per bag	100

Size	Colour	Packed	Prod Code	Barcode
0-7mm	Red	10 bags	TIWE001	5 021378 063034

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TILING TOOLS

ARC LEVELLING SYSTEM KIT

√ Arc Tile Levelling System ensures flatness between tiles avoiding movements during the mortar setting.

√ The innovative levelling system helps DIY and Professional tilers increase the efficiency of laying tiles and obtain a perfectly level floors every time.

√ Suitable for ceramic tiles with a thickness of up to 12mm, or up to 22mm with Arc Levelling Clips Plus.

Clip size 1mm 2mm 3mm

Content 1 Pliers 100 Wedges 200 Clips

Clip Size	Packed	Prod Code	Barcode
1mm	1 box	WEDG006	5 391514 614148
2mm	1 box	WEDG002	5 391514 614100
3mm	1 box	WEDG001	5 391514 614155

ARC LEVELLING CLIPS

√ Snap off at base once adhesive has set.

Size 1, 2 & 3mm

Qty per bag 200pcs

Colour Clear

Size	Packed	Prod Code	Barcode
1mm	1 bag	WEDG007	5 391514 614056
2mm	1 bag	WEDG004	5 391514 614063
3mm	1 bag	WEDG003	5 391514 614070

ARC LEVELLING CLIPS PLUS

√ For tiles 12 to 22mm thick.

Size 2mm

Qty per bag 200pcs

Colour Clear

Size	Packed	Prod Code	Barcode
2mm	1 bag	WEDG009	5 391514 615381

ARC LEVELLING WEDGES

√ Reusale wedges for use with self levelling clips and pliers.

Size (WxHxD) 91x17x23mm

Qty per bag 100pcs

Colour Orange

Colour	Packed	Prod Code	Barcode
Orange	1 bag	WEDG005	5 391514 614049

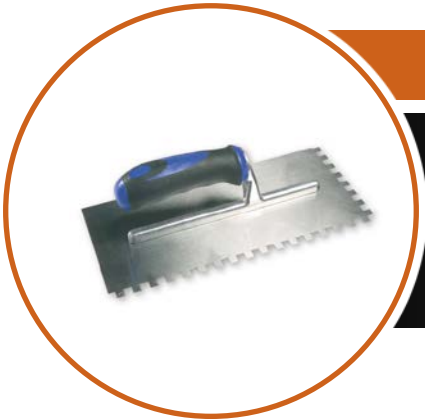ARC BUILDING PRODUCTS
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ARC LEVELLING PLIERS

√ For use with tile levelling wedges & clips.

▨ Size(WxHxD)   230x110x42mm
▣ Material   Steel
▯ Handle   Plastic

Size	Packed	Prod Code	Barcode
One size	1 unit	WEDG008	5 391514 614087

SQUARE NOTCHED TROWEL

√ Professional trowel available with aluminium handle and soft grip.
√ Extensive range for all applications.
√ 6 spot weld mounting rivets.

▨ Size   280 x 115mm
▯ Blade   Spring Steel

Size	Packed	Prod Code	Barcode
4x4mm	12 units	TTSN003	5 021378 063225
6x6mm	12 units	HASN004	5 021378 063232
8x8mm	12 units	TTSN005	5 021378 063249
10x10mm	12 units	TTSN004	5 021378 000411
12x12mm	12 units	TTSN002	5 021378 000398

TROWEL SET

√ Trowel set containing stainless steel blades and interchangeable handle. Contains 4mm, 6mm, 8mm & 10mm square notch blades, 10 x 20mm round notch blade and a universal tiger trowel.

Size	Packed	Prod Code	Barcode
Various	1 set	TTSN007	5 021378 097718

▯ Blade Size   280 x 115mm
▧ Blades Included 6
▯ Handle   Interchangeable

SPIKE ROLLER

√ For use with floor screeds & epoxy resin coatings to remove trapped air bubbles.

▨ Size (WxD)   500mm x 11mm
▯ Handle   Steel

Size	Packed	Prod Code	Barcode
500 x 11mm	1 unit	TTSN015	5 021378 047362

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CERADRILL DIAMOND DRILL

✓ Vacuum-brazed diamond coating for maximum drilling performance.
✓ The CeraDrill bit has an integrated cooling liquid that is released during the drilling operation.
✓ No water cooling required.

⊖ Shank Ø   12mm
⊖ Drill Ø   6, 8, 10 & 12mm
↔ Length   35mm

Size	Colour	Packed	Prod Code	Barcode
6mm	Black	1 unit	4000602-100	4 081600 400816
8mm	Black	1 unit	4000604-100	4 081600 400830
10mm	Black	1 unit	4000605-100	4 081600 400847
12mm	Black	1 unit	4000606-100	4 081600 400854

GROUT RAKE

✓ Professional grout remover with interchangeable carbide and saw blades.

🗋 Handle   Quality Plastic
☑ Includes   1 x Serrated Blade
                  1 x Carbide

Size	Packed	Prod Code	Barcode
Standard	12 units	TTRA001	5 021378 000619

GROUT SPONGE

✓ Sponges for grouting and cleaning up grout.

▦ Size   200x150x60mm
                155x105x55mm

Size	Packed	Prod Code	Barcode
200 x 150 x 60mm	10 units	TTS0001	5 021378 996127
155 x 105 x 55mm	30 units	TTSOOO2	5 021378 072999

SPONGE FLOAT

✓ Light weight float with heavy duty foam sponge.

▨ Size   280 x 140mm
≑ Thickness   30mm
🗋 Handle   Plastic

| Size	Packed	Prod Code	Barcode
280 x 140mm	12 units	TTGF002	5 021378 075655

GROUT FLOAT
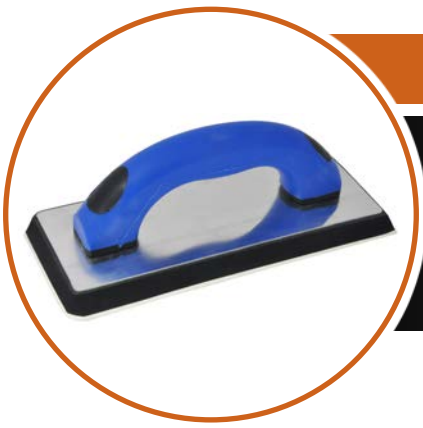
√ PVC handle and aluminium backing with white rubber face, rounded & bevelled edges for ease of spreading.

√ Professional float designed for grouting wall and floor tiles.

Size	Packed	Prod Code	Barcode
240 x 102mm	12 units	TTGF001	5 021378 001333

Size   240 x 102mm
Handle   PVC

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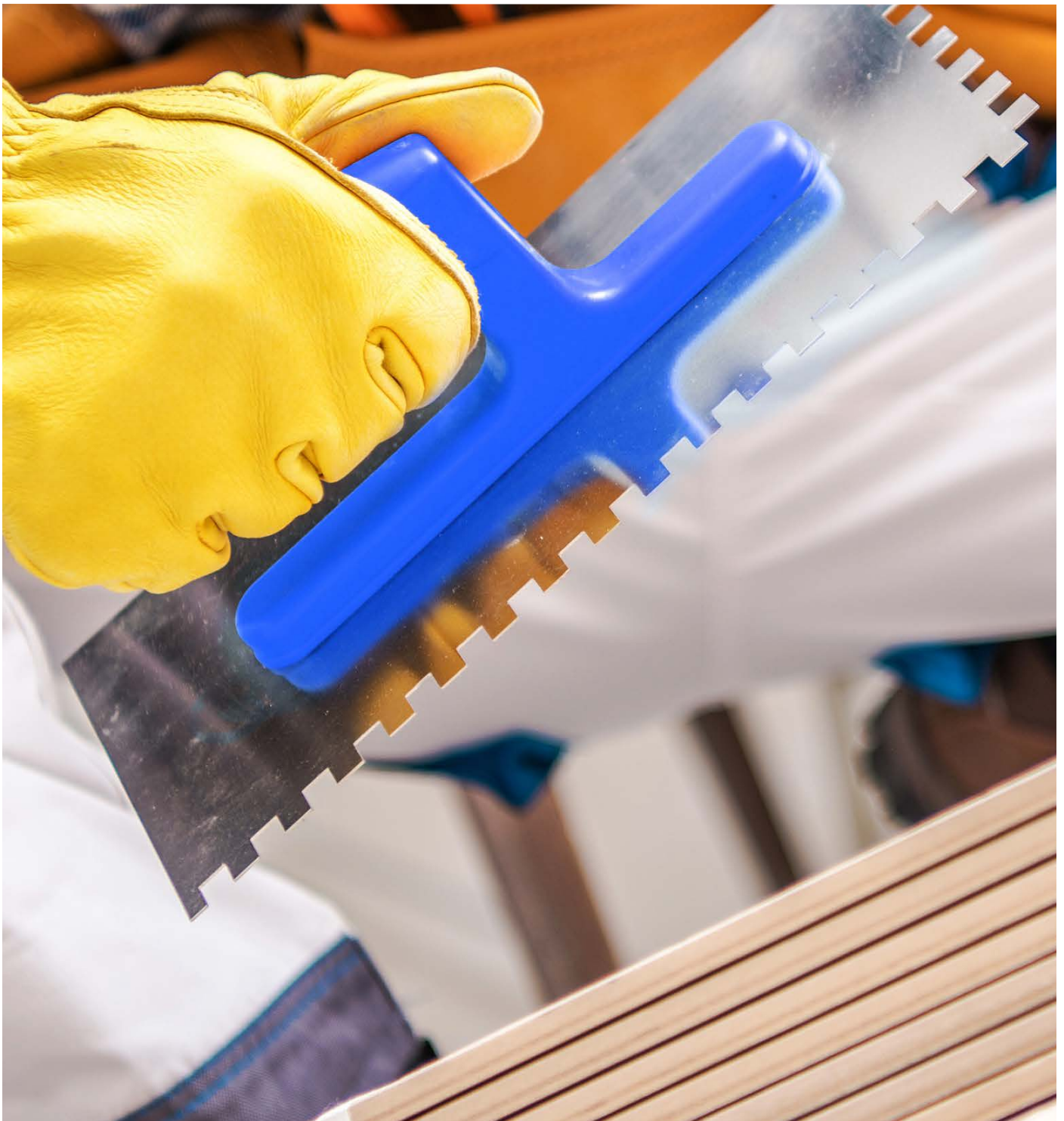
TILE MAINTENANCE

ARC GROUT & TILE SEALER

✓ For Tiles & Grout.
✓ Penetrating protection.
✓ Does not alter the natural look.
✓ Interior & exterior.
✓ 20 year protection.
✓ Suitable for all tiles including natural stone, porcelain (incl. polished), travertine, limestone, marble, granite, sandstone etc. Can be applied to damp grout & tiles.

Finish	Clear
Coverage	25m²
Drying Time	1 hour
Type	Sealer/Protector

Size	Type	Packed	Prod Code	Barcode
600ml	Spray	6 units	UNR3I1	5 391514 611970

Suitable for:

- Marble
- Natural Stone
- Porcelain
- Travertine
- Terracotta
- Granite
- Slate
- Limestone
- Grout
- Sandstone
- Damp Surfaces
- Internal/External

STONE SEALER

✓ Forms a waterproof and stain resistant protective layer.
✓ Colour enhancing with a soft satin shine.
✓ For interior and exterior use.
✓ Suitable for all absorbent natural and artificial stones and tiles including slate, marble, sandstone, terrazzo, concrete surfaces etc.
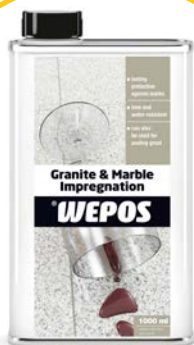
Finish	Soft Satin Shine
Coverage	15-20m²
Drying Time	2 hours
Type	Sealer/Protector

Size	Type	Packed	Prod Code	Barcode
1litre	Tin	4 units	WETC001	4 250295103405

Suitable for:

- Slate
- Absorbent Stone
- Marble
- Sandstone
- Terrazzo
- Concrete Surfaces

GRANITE & MARBLE IMPREGNATOR

✓ Forms a waterproof and stain resistant protective layer.
✓ Clear & invisible finish.
✓ For interior and exterior use.
✓ Suitable for all absorbent natural and artificial stones and tiles including slate, polished, smooth or sandblasted marble, sandstone, terrazzo, concrete surfaces, polished, smooth or sandblasted porcelain, kitchen counters, granite, grout etc.

Finish	Clear
Coverage	10-25m²
Drying Time	3-4 hours
Type	Sealer/Protector

Size	Type	Packed	Prod Code	Barcode
1litre	Tin	4 units	WETC002	4 250295100602

Suitable for:

- Slate
- Sandstone
- Marble
- Terrazzo
- Concrete
- Porcelain
- Granite
- Grout
- Kitchen Counters

COLOUR INTENSIFIER

√ Forms a waterproof and stain resistant protective layer.
√ Deepens and intensifies colour leaving an almost wet look.
√ For interior and exterior use.
√ Suitable for all absorbent natural and artificial stones and tiles including slate, marble, sandstone, terrazzo, concrete surfaces, patios etc.

Finish — Deepens Colour
Coverage — 15-20m²
Drying Time — 1 hour
Type — Sealer/Protector

Size	Type	Packed	Prod Code	Barcode
1litre	Tin	4 units	WETC003	4 250295102750

Suitable for:

• Slate
• Marble
• Terrazzo
• Concrete Surfaces
• Sandstone

KLEANX GROUT CLEANER

√ Removes grease, dirt, residues of care products and stubborn deposits.
√ For the grouting of wall and floor tiles.
√ For ceramic and natural stone tile grouting
√ For interior and exterior use.

Dilute — No
Type — Cleaner

Size	Type	Packed	Prod Code	Barcode
500ml	Trigger	6 units	KLNX005	5 391514 614209

Suitable for:

• Natural Stone
• Patios
• Chrome
• Stoneware
• Sanitary Ware

TILE & STONE CLEANER - ACIDIC

√ For acid resistant surfaces.
√ Interior and exterior use.
√ Powerful, concentrated cleaner for removal of stubborn dirt, calcium, urine and water scale, limescale, light cement films, rust etc.
√ Use on acid resistant tiles, natural stone, stoneware, patios, sanitary ware, chrome etc.

Dilute — 1:10
Type — Cleaner

Size	Type	Packed	Prod Code	Barcode
1litre	Bottle	4 units	WETC004	4 250295102958

Suitable for:

• Acid Resistant Surfaces

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TILE & STONE CLEANER - ALKALINE

√ For alkaline resistant surfaces.
√ Interior and exterior use.
√ Also for plastic, PVC and rubber coverings.
√ Powerful, concentrated cleaner for removal of stubborn dirt, old floor care residues, polish films, wax, nicotine, fat encrustations, yellowing etc.
√ For ceramic tiles and natural stone including porcelain, marble, granite etc.

Dilute   1:10
Type   Cleaner

Size	Type	Packed	Prod Code	Barcode
1litre	Bottle	4 units	WETC005	4 250295103009

Suitable for:

- Porcelain
- Granite
- PVC
- Marble
- Plastic
- Rubber Coverings
- Natural Stone
- Stoneware
- Sanitary Ware

CEMENT RESIDUE REMOVER

√ Highly effective concentrate.
√ For floor tiles.
√ Interior and exterior use.
√ For all acid-resistant surfaces.
√ Quickly and easily removes cement residue, mortar residue, lime deposits, efflorescence and inorganic contamination.

Dilute   1:10
Type   Cleaner

Size	Type	Packed	Prod Code	Barcode
1litre	Bottle	4 units	WECL018	4 250295100558

Suitable for:

- Acid Resistant Surfaces

CEMENT RESIDUE REMOVER FOR MARBLE & STONE

√ Concentrated.
√ For mild cleaning of sensitive coatings.
√ For wall and floor.
√ Interior and exterior use.
√ Gently and effectively removes cement residue, cement remains, grout residues, lime deposits and soiling from surfaces sensitive to acids.

Dilute   1:10
Type   Cleaner

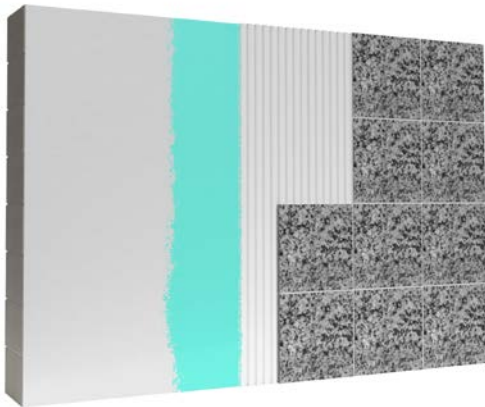| Size	Type	Packed	Prod Code	Barcode
1litre	Bottle	4 units	WECL017	4 250295103450

Suitable for:

- Natural Stone
- Stoneware
- Marble
- Sanitary Ware

TILING GUIDE - WALLS

GYPSUM PLASTER

√ Allow 4 weeks minimum for new plaster to dry.
√ Ensure surface is free of any contaminants, loose dust or dirt.
√ Polished/shiny plaster must be brushed with a stiff brush.
√ Maximum weight when tiling to plaster is 20kg per m² including tiles, adhesive and grout.
√ Any paint must be removed prior to tiling.

Tiling Guidelines

1. Prime the plaster with Arc Tilers Primer diluted 3 parts water to 1 part primer followed by a second neat coat & allow to dry.
2. Apply a bed of Arc Pro-Flex, High-Flex 55 Standard Set or T-20 Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.
3. Finish with Arc Pro-Line Grout.

GYPSUM PLASTERBOARD
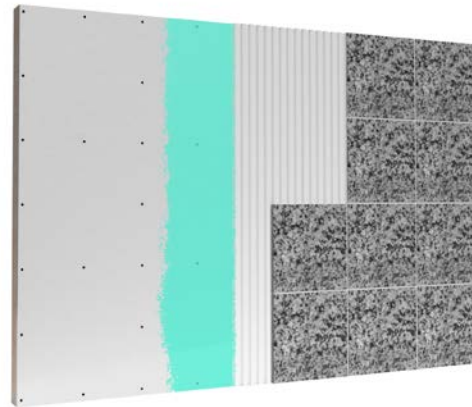
√ Ensure the boards are fixed securely to the framework, ideally screwed at 300mm centres.
√ Ensure surface is free of any contaminants, loose dust or dirt.
√ If the plasterboard is fixed to a timber frame, a flexible adhesive and grout must be used.
√ Maximum weight when tiling to plasterboard is 32kg per m² including tiles, adhesive and grout.
√ Any paint must be removed prior to tiling.

Tiling Guidelines

1. Prime the plasterboard with Arc Tilers Primer diluted 3 parts water to 1 part primer.
2. Apply a bed of Arc Pro-Flex, High-Flex 55 Standard Set or T-20 Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.
3. Finish with Arc Pro-Line Grout.

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SAND & CEMENT RENDER
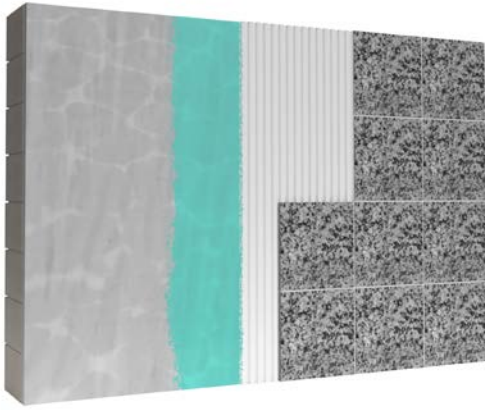
- √ Allow 2 weeks minimum for new render to dry.
- √ Ensure surface is free of any contaminants, loose dust or dirt.
- √ If tiling externally, protect the tiled area from water ingress for 24-48 hours.

Tiling Guidelines

1. Prime the render with Arc Tilers Primer diluted 3 parts water to 1 part primer & allow to dry.
2. Apply a bed of Arc Pro-Flex, High-Flex 55 Standard Set or T-20 Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.
3. Finish with Arc Pro-Line Grout.

CONCRETE BLOCKS
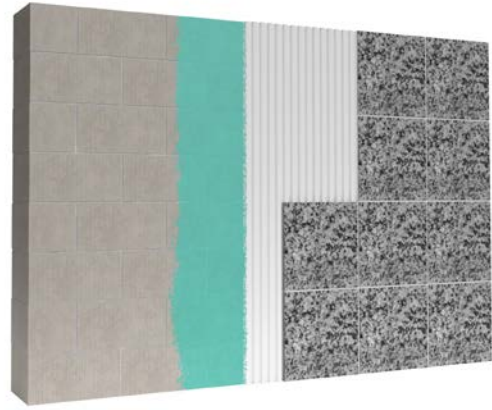
- √ New block work must be left for a minimum of 6 weeks before rendering or plastering.
- √ Ensure surface is free of any contaminants, loose dust or dirt.
- √ If tiling directly to block work, ensure the wall is smooth faced.
- √ If tiling externally, a flexible adhesive and grout must be used and protect the tiled area from water ingress for 24-48 hours.

Tiling Guidelines

1. Prime the surface with Arc Tilers Primer diluted 3 parts water to 1 part primer & allow to dry.
2. Apply a bed of Arc Pro-Flex, High-Flex 55 Standard Set or T-20 Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.
3. Finish with Arc Pro-Line Grout.

## EXISTING GLAZED TILES / BRICKS
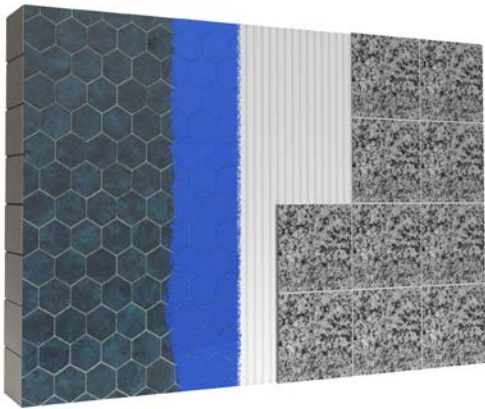
- √ Ensure existing tiles are firm, stable and securely fixed.
- √ Ensure surface is free of any contaminants, loose dust or dirt.

Tiling Guidelines

1. Prime the surface with Arc Tilers Primer Plus neat coat & allow to dry.
2. Apply a bed of Arc Pro-Flex, High-Flex 55 Standard Set or T-20 Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.
3. Finish with Arc Pro-Line Grout.

PLYWOOD
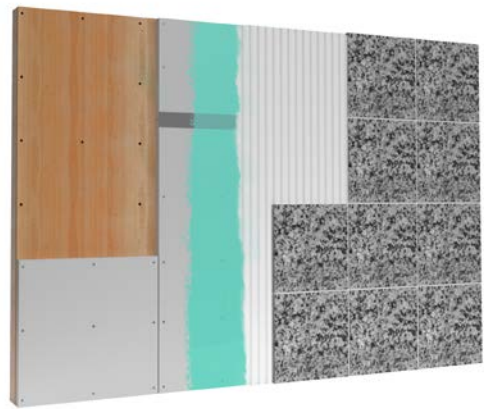
- √ **BS 5385 Part 1: Tiling direct to plywood is no longer recommended for wall tiling, but a bespoke tiling backer board should be used.**
- √ Arc recommends using Magna Boards as a backer board.

Tiling Guidelines

1. Fix Arc Magna-Boards to the plywood using stainless steel or galvanised screws every 300mm. Fixings should be at least 15mm from the edge and 20mm from the corners. Boards should be offset so that 4 corners never meet at the same point.
2. Prime the Arc MagnaBoards with Arc Tilers Primer diluted three parts water to one part primer.
3. Joints should be taped with Arc Scrim Tape.
4. Apply a bed of Arc Pro-Flex or High-Flex 55 Standard Set Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.
3. Finish with Arc Pro-Line Grout.

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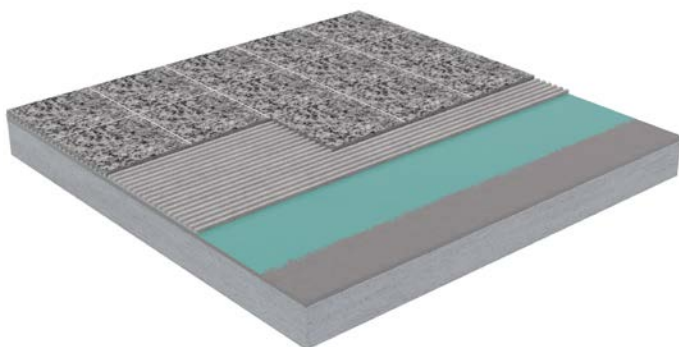
SAND & CEMENT SCREED

√ New sand & cement screed must be left for a minimum of 4 weeks to dry sufficiently.

√ Remove any loose flaking layers and ensure surface is free of any contaminants, loose dust or dirt.

Tiling Guidelines

1. Prime the screed with Arc Tilers Primer diluted 3 parts water to 1 part primer and allow to dry. Very porous screeds may require more than one coat of primer.

2. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.

3. Finish with Arc Flexi Grout or Arc Pro-Line Grout.

CONCRETE BASE
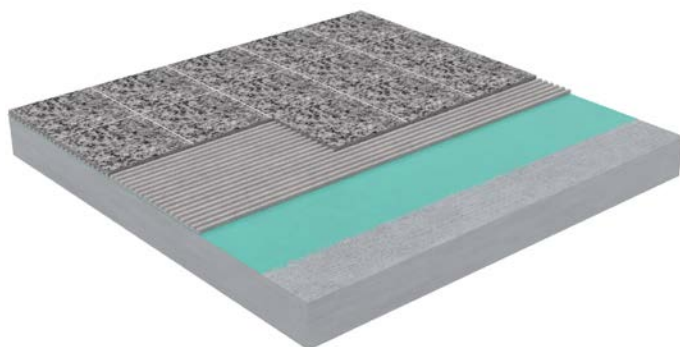
√ New concrete must be allowed a minimum of 6 weeks drying time. Allow 1 day per mm for an overall depth of 50mm and 2 days per mm for any depth above 50mm.

√ Remove any laitance from surface & ensure surface is free of any contaminants, loose dust or dirt.

Tiling Guidelines

1. Prime the base with Arc Tilers Primer diluted 3 parts water to 1 part primer and allow to dry. Very porous concrete may require more than one coat.

Power floated concrete should be abraded and cleaned before priming with one coat of Arc Tilers Primer Plus.

2. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.

*3. Finish with Arc Flexi Grout or Arc Pro-Line Grout.*

CEMFLOOR FLOWING SCREEDS
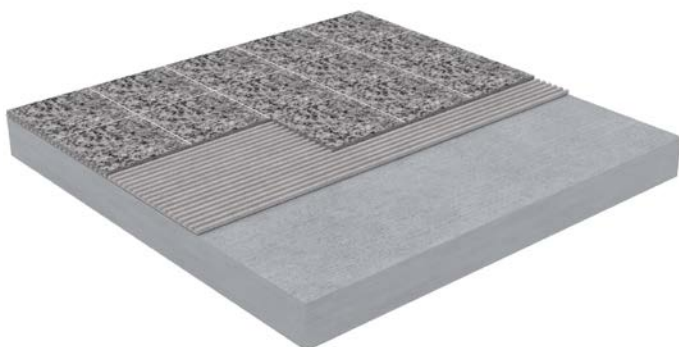
√ Flowing screeds based on cement are relatively new to the market. While it is likely the producer will recommend that no surface preparation is required, it is always worth assessing the screed on site for suitability to receive tiling directly.

√ All movement joints and crack inducer joints must be carried through the tiling.

Tiling Guidelines

1. Priming is not generally required, we would recommend contacting the producer for their guidance with regards to preparation.

2. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.

*3. Finish with Arc Flexi Grout or Arc Pro-Line Grout.*

GYPSUM SCREED
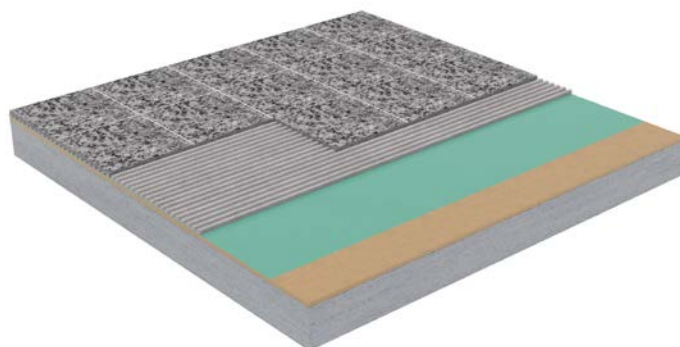
√ Gypsum screed must be confirmed dry via consistent moisture readings. The residual moisture content must be less than 0.5%.

√ We recommend that ALL calcium sulphate based screeds are mechanically prepared before proceeding, e.g. by STR type machine and then brushing/vacuuming to remove dust.

Tiling Guidelines

1. Prime the screed with 2 coats of Arc Tilers Primer, first diluted 3 parts water to 1 part primer followed by a neat coat. Allow to dry in between coats.

2. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.

3. Finish with Arc Flexi Grout or Arc Pro-Line Grout.

FLOORING GRADE ASPHALT
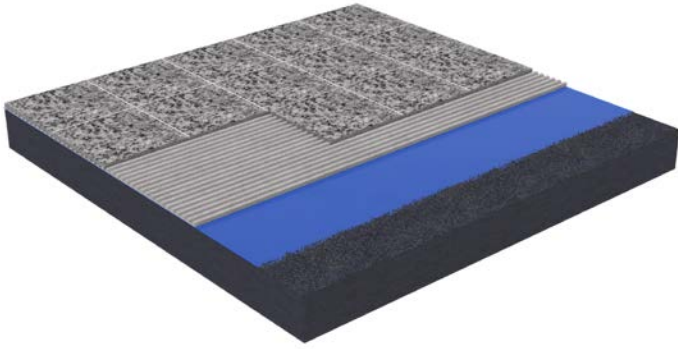
√ Remove any surface contamination, loose dust or dirt and ensure there are no signs of debonding or hollowness.

Tiling Guidelines

1. Prime the surface with Arc Tilers Primer Plus neat coat & allow to dry.
2. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.
3. Finish with Arc Flexi Grout or Arc Pro-Line Grout.
*Note: Only flooring grade asphalt is suitable to receive tiling and only internally.

EXISTING TILES
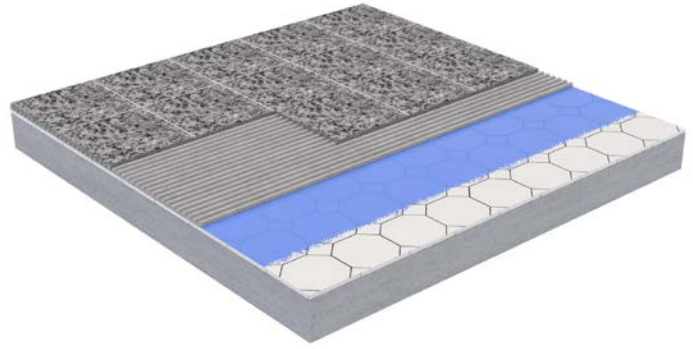
√ Ensure existing tiles are firmly bonded to the original substrate.
√ Remove any loose tiles and make good.
√ Remove any surface contamination, loose dust or dirt.

Tiling Guidelines

1. Prime the existing tiles with Arc Tilers Primer Plus neat coat & allow to dry.
2. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.
3. Finish with Arc Flexi Grout or Arc Pro-Line Grout.
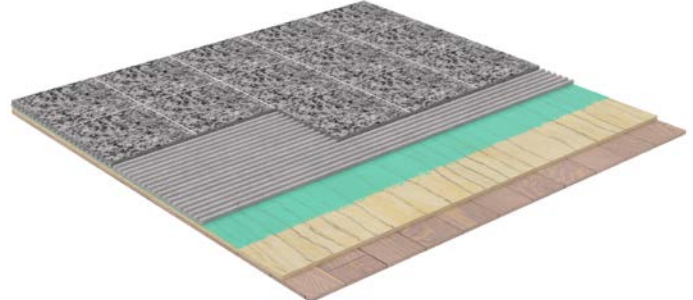
EXISTING VINYL TILES / VINYL SHEETS
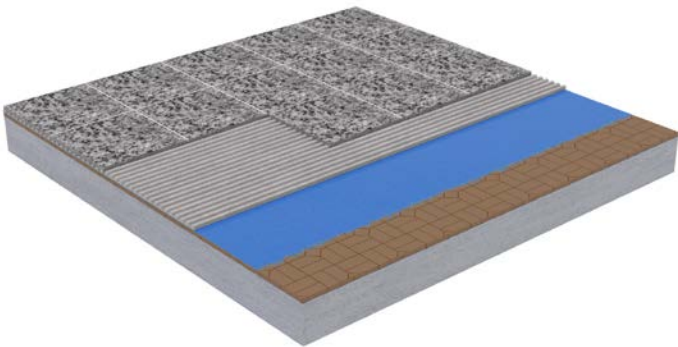
√ Ensure existing vinyl is firmly bonded to the original substrate.
√ Remove any loose vinyl tiles and make good.
√ Remove any surface contamination, loose dust or dirt.
√ If present, floor polish should be removed.

Tiling Guidelines

1. Prime the existing vinyl with Arc Tilers Primer Plus neat coat & allow to dry.
2. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.
3. Finish with Arc Flexi Grout or Arc Pro-Line Grout.
*Note: Cushioned vinyl is generally not suitable for over tiling.
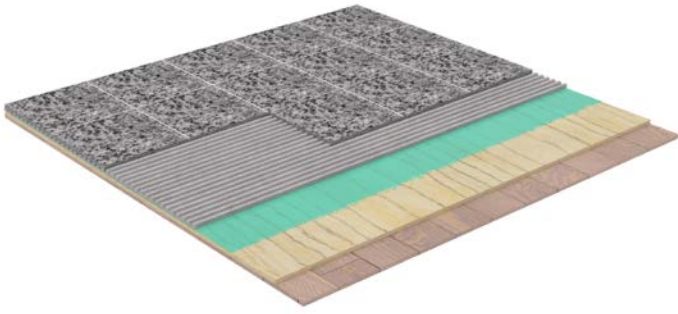
TONGUE & GROOVE FLOORBOARDS - PLYWOOD OVERLAY

√ Arc recommends using MagnaBoards as a better alternative for plywood. See page 55 for details.
√ Floors must be structurally sound and strong enough to support the traffic loading expected for the area concerned.
√ Plywood must be exterior grade and a minimum of 15mm.
√ Stagger the joints when fixing the plywood, leaving a 0.5mm to 1mm gap between boards.
√ Plywood must be screwed, not nailed, at 150mm centres.
√ Remove any surface contamination, loose dust or dirt.

Tiling Guidelines

1. Prime the plywood with Arc Tilers Primer diluted 3 parts water to 1 part primer and allow to dry.
2. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.
3. Finish with Arc Flexi Grout or Arc Pro-Line Grout.

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TIMBER FLOORS

√ Arc recommends using MagnaBoards as a better alternative for plywood. See page 55 for details.
√ Floors must be structurally sound and strong enough to support the traffic loading expected for the area concerned.
√ Plywood must be exterior grade and a minimum of 15mm.
√ Stagger the joints when fixing the plywood, leaving a 0.5mm to 1mm gap between boards.
√ Plywood must be screwed, not nailed, at 150mm centres.
√ Remove any surface contamination, loose dust or dirt.

Tiling Guidelines

1. Prime the plywood with Arc Tilers Primer diluted 3 parts water to 1 part primer and allow to dry.
2. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.
*3. Finish with Arc Flexi Grout or Arc Pro-Line Grout.*

DECOUPLING MEMBRANE
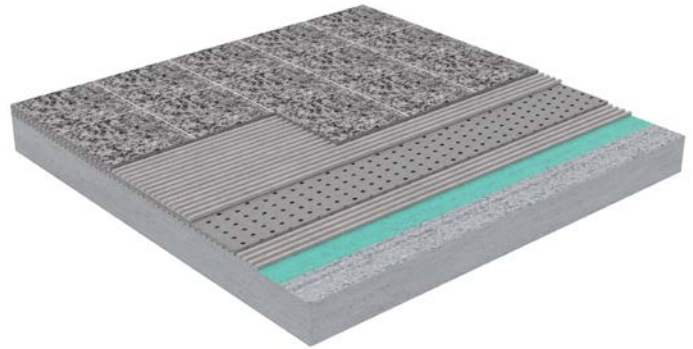
√ Ensure the original substrate is firm, stable, in good condition and any cracks have been repaired.
√ Remove any loose flaking layers and ensure the surface is free from any contaminants, loose dust or dirt.

Tiling Guidelines

1. Prime the substrate with Arc Tilers Primer diluted 3 parts water to 1 part primer and allow to dry.
2. Apply a thin 3mm to 6mm bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive and lay the decoupling membrane with the dimples facing downwards while the adhesive is still moist. Allow the adhesive to cure before tiling commences.
3. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive over the membrane and bed in the tiles or slabs in accordance with the usual practice.
4. Finish with Arc Flexi Grout or Arc Pro-Line Grout.

ELECTRIC UNDERFLOOR HEATING
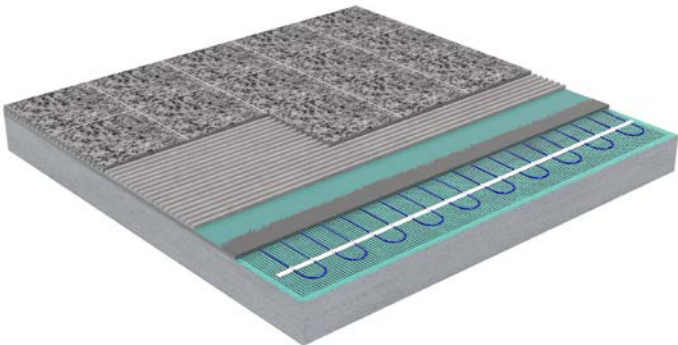
√ Ensure substrate is firm, stable and in good condition.
√ Remove any surface contamination, loose dust or dirt.

Tiling Guidelines

1. Prime the concrete floor with Arc Tilers Primer diluted 3 parts water to 1 part primer and allow to dry.
2. Ensure the underfloor heating mat is taped down to the substrate and embed the mat using Arc Highbuild Floor Levelling Compound which should be at least 3mm above the mat.
3. Once cured, prime the compound with Arc Tilers Primer diluted 3 parts water to 1 part primer and allow to dry.
4. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.
5. Finish with Arc Flexi Grout or Arc Pro-Line Grout.
*Note: The distance between movement joints in the floor coverings should not exceed an edge length of 8m. The area should not be larger than 40m². Once complete, allow 7 days before switching the heating on, initially at a low temperature and then increase the temperature gradually by 5°C per day.

HEATED SCREEDS
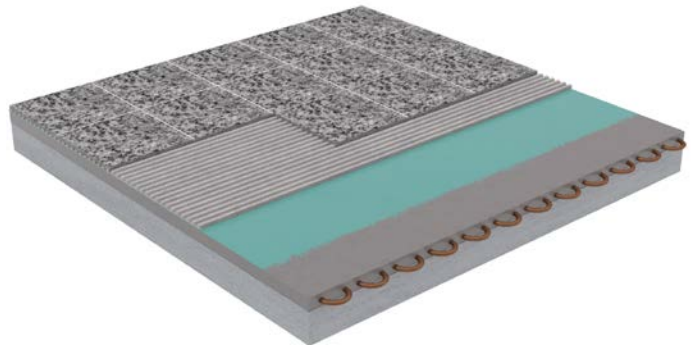
√ New sand / cement screeds must be left for a minimum of 4 weeks to dry sufficiently.
√ Turn off the heating 24 hours prior to tiling, or in cold weather reduce to below 15°C.
√ Remove any loose flaking layers and ensure the surface is free from any contaminants, loose dust or dirt.

Tiling Guidelines

1. Prime the screed with Arc Tilers Primer diluted 3 parts water to 1 part primer and allow to dry. Very porous screeds may require more than one coat.
2. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.
3. Finish with Arc Flexi Grout or Arc Pro-Line Grout.
*Note: The distance between movement joints in the floor coverings should not exceed an edge length of 8m. The area should not be larger than 40m². Once complete, allow 7 days before switching the heating on, initially at a low temperature and then increase the temperature gradually by 5°C per day.

EXTERNAL TILING

GENERAL GUIDELINES
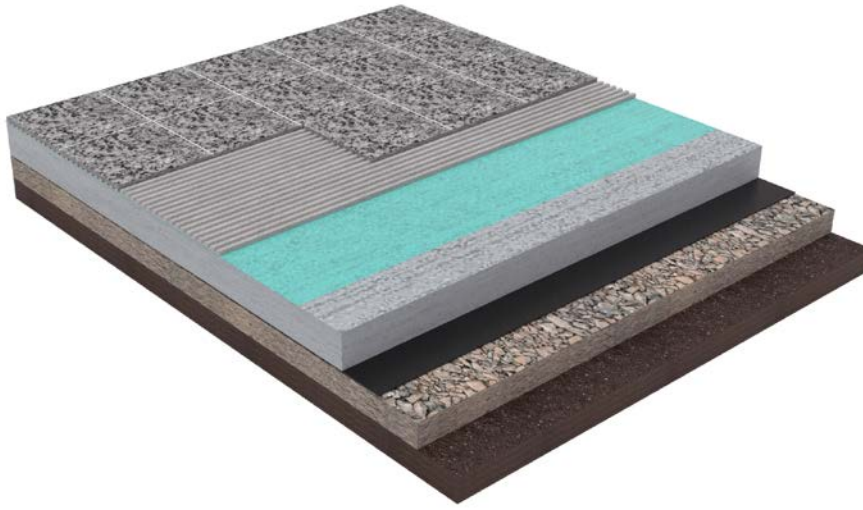
When tiling externally with Porcelain Paving and suitable natural stone, there are a number of possible installation methods recommended by manufacturers:

Flexible: Loose laid on a compacted sand or gravel bed, as is normal with concrete paving etc. Jointing is typically loose sand or gravel, stabilised or 'polymer sand' type.

'Landscaper': Laid on a mortar bed on a stable compacted base, in which case a priming slurry would ensure a bond between the paving unit and the bedding. Jointing is typically either rigid cement-based grout or flexible 'polymer sand'.

Pedestal: Raised on a suitable proprietary pedestal system installed on a concrete base, usually on roof or balcony installations.

Tiled: Laid with flexible tile adhesive on a fully cured, 'structural', frost resistant concrete slab. Jointing should be carried out with a suitable flexible tile grout.

With all methods when used externally it is important to consider water (rain) management, drainage and movement accommodation.

BASE PREPARATION - NEW CONCRETE

√ New Concrete should be a minimum of 6 weeks old prior to tiling.

√ When installing a new base, advice should be sought from an architect etc. The following is brief guidance regarding some of the considerations.

√ Concrete should be a minimum of 150mm deep installed on a minimum of 100mm compacted hardcore base.

√ For best results a DPM should be in place between the hardcore and concrete.

√ Concrete should be laid to fall to drains and away from buildings. Typically, a fall of 1.5 – 2% is adequate (ca. 1:60 to 1:50).

√ Ideally the concrete should be finished with an open, wood float type finish. It is recommended not to powerfloat the finish.

√ If a spray applied curing membrane has been used this should be mechanically removed prior to tiling.

BASE PREPARATION - EXISTING CONCRETE

√ Ensure adequate falls exist in the concrete.

√ Any minor cracks or damaged areas should be repaired and made good. Significant cracking should be investigated to ensure that any movement has stopped and that the crack is no longer 'live'.

√ Ensure the surface has been thoroughly cleaned and any contamination has been removed.

√ 2-3 days prior to tiling treat the surface with Arc Algae & Green Slime remover.

Tiling guidelines

1. Concrete should be dry.
2. Prime the concrete with Arc Tilers Primer diluted 3 parts water to 1 part primer. Do not allow primer to pond. Allow primer to dry before tiling.
3. Install tiles with Arc Ultra-Flex S2 adhesive.
4. The tiles should be back buttered with a thin coat of adhesive immediately before fixing with a solid bed between 3-6mm. Full coverage between adhesive, tile and concrete is required.
5. Grout joints are recommended to be a minimum of 3mm and grouting carried out with Arc Pro-Line Grout or Arc Flexi Grout.

*Note: Movement accommodation should be installed around the tiling perimeter and anywhere the tiling meets another surface. Existing construction movement joints should also be carried through from the substrate. With large format tiles install intermediate movement joints at maximum 3 metre intervals.
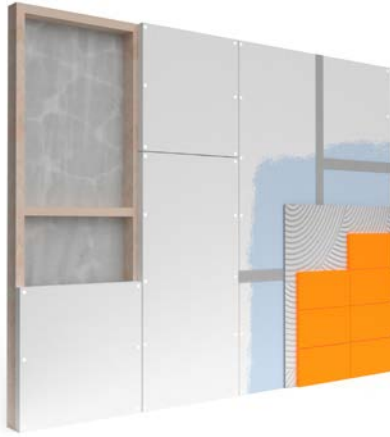*During the installation and until the grout is sufficiently cured, protect tiling installation from rain etc.*

INSTALLATION ON STUD WALL

√ Vertical timber studs should be at a maximum of 600mm centres.
√ 12mm boards are recommended for walls.

Tiling Guidelines

1. Fix Arc MagnaBoards (rough side out) to the frame using stainless steel or galvanised screws every 300mm. Fixings should be at least 15mm from the edge and 20mm from the corners. Boards should be offset so that 4 corners never meet at the same point.

2. Prime the Arc MagnaBoards with Arc Tilers Primer diluted three parts water to one part primer.

3. Joints should be taped with Arc Scrim Tape or with Arc Butyl Tanking Tape for water resistance.

4. Apply a bed of Arc Pro-Flex or High-Flex 55 Standard Set Tile Adhesive and bed in the tiles or slabs in accordance with the usual practice.

3. Finish with Arc Pro-Line Grout.

*Note: Arc MagnaBoards are water resistant and will not deteriorate when exposed to water. However, for 100% waterproof substrate, we recommend using Hydroset Boards (details on pages 56-57). Alternatively tanking can be applied.

INSTALLATION ON CONCRETE OR BLOCK WALL

√ Ensure the substrate is structurally sound and free of dust and other contaminants.
√ 12mm boards are recommended for walls.

Tiling Guidelines

1. Prime the substrate with Arc Tilers Primer diluted three parts water to one part primer.

2. Prime both sides and edges of the boards with Arc Tilers Primer diluted 3 parts water to one part primer.

3. Apply a bed of Arc Pro-Flex or High-Flex 55 Standard Set Tile Adhesive to the substrate and bed in the boards (rough side out) ensuring full surface contact. Using stainless steel or galvanised fixings, fix boards every 300mm. Fixings should be at least 15mm from the edge and 20mm from the corners. Boards should be offset so that four corners never meet at the same point.

4. Joints should be taped with Arc Scrim Tape or with Arc Butyl Tanking Tape for water resistance.

5. Apply a bed of Arc Pro-Flex, High-Flex 55 Standard Set or T-20 Tile Adhesive to the Arc MagnaBoard and bed in the tiles or slabs in accordance with the usual practice.

6. Finish with Arc Pro-Line Grout.

*Note: Arc MagnaBoards are water resistant and will not deteriorate when exposed to water. However, for 100% waterproof substrate, we recommend using Hydroset Boards (details on pages 56-57). Alternatively tanking can be applied.

INSTALLATION ON TIMBER FLOOR

√ Ensure the substrate is structurally sound and free of dust and other contaminants.
√ 6mm or 12mm boards are recommended for floors.
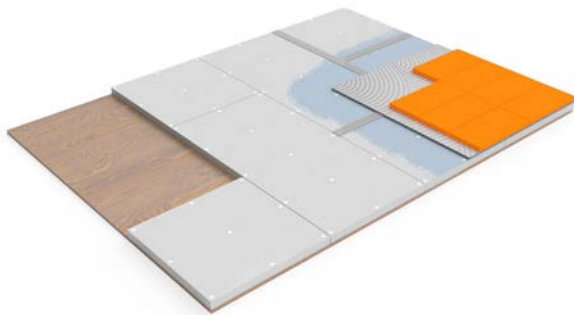
Tiling Guidelines

1. Fix Arc MagnaBoards (rough side up) to the timber floor using stainless steel or galvanised screws every 300mm. Fixings should be at least 15mm from the edge and 20mm from the corners. Boards should be offset so that four corners never meet at the same point.

2. Prime the Arc MagnaBoards with Arc Tilers Primer diluted three parts water to one part primer.

3. Joints should be taped with Arc Scrim Tape or with Arc Butyl Tanking Tape for water resistance.

4. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive to the MagnaBoard and bed in the tiles or slabs in accordance with the usual practice.

5. Finish with Arc Flexi Grout or Arc Pro-Line Grout.

*Note: For greater adhesion and durability, as well as screw fixing, boards can be set in a bed of Arc Rapid Flex Tile Adhesive or beads of MS-11.

***Arc MagnaBoards are water resistant and will not deteriorate when exposed to water. However, for 100% waterproof substrate, we recommend using Hydroset Boards (details on pages 56-57). Alternatively tanking can be applied.

INSTALLATION ON CONCRETE FLOOR

√ Ensure the substrate is structurally sound and free of dust and other contaminants.
√ 6mm or 12mm boards are recommended for floors.
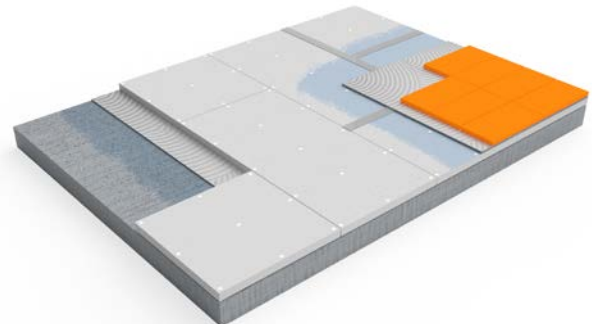
Tiling Guidelines

1. Prime the substrate with Arc Tilers Primer diluted three parts water to one part primer.

2. Prime both sides and edges of the boards with Arc Tilers Primer diluted 3 parts water to one part primer.

3. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive to the substrate and bed in the boards (rough side up) ensuring full surface contact. Using stainless steel or galvanised fixings, fix boards every 300mm. Fixings should be at least 15mm from the edge and 20mm from the corners. Boards should be offset so that four corners never meet at the same point.

4. Joints should be taped with Arc Scrim Tape or with Arc Butyl Tanking Tape for water resistance.

5. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive to the MagnaBoard and bed in the tiles or slabs in accordance with the usual practice.

6. Finish with Arc Flexi Grout or Arc Pro-Line Grout.

*Note: Arc MagnaBoards are water resistant and will not deteriorate when exposed to water. However, for 100% waterproof substrate, we recommend using Hydroset Boards (details on pages 56-57). Alternatively tanking can be applied.

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HYDROSET BOARDS

GENERAL GUIDELINES

Substrates

All substrates should be sound, clean, dry, level and free from any contamination. Substrates must be dimensionally stable and strong enough to support the expected traffic loading.

Cutting

Arc HydroSet Boards can be easily cut to shape and size using a standard utility knife or saw. Smooth and tidy up edges using a light abrasive.

Fitting

Arc HydroSet Boards can be fixed using a flexible adhesive (Arc Pro-Flex or T-20 if fitted on solid walls or Arc Rapid-Flex Tile Adhesive if fitted on floors) or by using screws and washers.
When fixing with screws and washers apply the fixings at 300mm centres leaving 1 inch from the edges. Boards should always be offset so that 4 corners never meet at one point.

Joints

All joints should be reinforced with Arc Scrim Tape. For 100% waterproofing, joints should be sealed with Arc Butyl Tanking Tape.

Note

When choosing the thickness of the boards most suitable for your installation you should consider a number of factors. Firstly, the build height that you have available may limit you to, for example, a maximum board thckness of 6mm. Additionally, if you are using the boards to secure a wooden base you should always use 10mm thick board. If you have the available build height we recommend using 20mm HydroSet boards as they provide a great trade-off between cost and insulation efficency providing a U Value(W/m²k) of 1.35. Our 10mm boards have a U Value of 2.70 and our 6mm boards a U Value of 4.50.

INSTALLATION ON STUD WALL
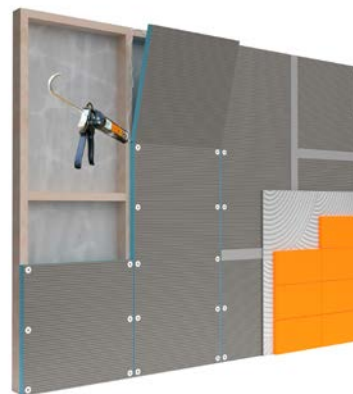
√ Vertical timber studs should be at a maximum of 600mm centres.

√ For a stronger fixing MS-11 Rapid High Tack can be applied on the frame prior to fitting the boards on the stud wall.

√ 12.5mm to 50mm boards are recommended for walls.

Tiling Guidelines

1. Fix Arc HydroSet Boards to the frame using screws and washers every 300mm. Fixings should be at least 1 inch from the edges. Boards should be offset so that 4 corners never meet at the same point.
2. Joints should be taped with Arc Scrim Tape or with Arc Butyl Tanking Tape for 100% waterproofing.
3. Apply a bed of Arc Pro-Flex or High-Flex 55 Standard Set Tile Adhesive to the Arc HydroSet Board and bed in the tiles or slabs in accordance with the usual practice.
4. Finish with Arc Pro-Line Grout.

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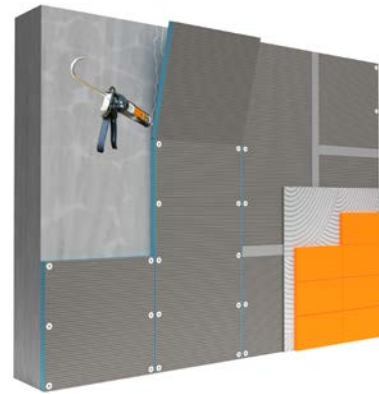We are stronger

INSTALLATION ON SOLID WALL (ADHESIVE)
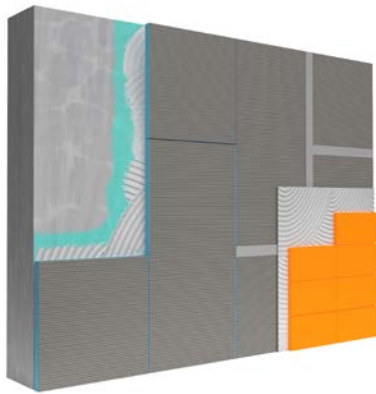
√ Ensure the substrate is structurally sound and free of dust and other contaminants.

√ 12.5mm to 50mm boards are recommended for walls.

Tiling Guidelines

1. Prime the substrate with Arc Tilers Primer diluted three parts water to one part primer.

2. Apply a bed of Arc Pro-Flex or High-Flex 55 Standard Set Tile Adhesive to the substrate and bed in the boards ensuring full surface contact. Boards should be offset so that 4 corners never meet at the same point.

3. Joints should be taped with Arc Scrim Tape or with Arc Butyl Tanking Tape for 100% waterproofing.

4. Apply a bed of Arc Pro-Flex, High-Flex 55 Standard Set or T-20 Tile Adhesive to the Arc HydroSet Board and bed in the tiles or slabs in accordance with the usual practice.

5. Finish with Arc Pro-Line Grout.

INSTALLATION ON SOLID WALL (SCREWS & WASHERS)

√ Ensure the substrate is structurally sound and free of dust and other contaminants.

√ For a stronger fixing MS-11 Rapid High Tack can be applied on the substrate prior to fitting the boards on the wall.

√ 12.5mm to 50mm boards are recommended for walls.

Tiling Guidelines

1. Using screws and washers, fix boards every 300mm. Fixings should be at least 1 inch from the edges. Boards should be offset so that 4 corners never meet at the same point.

2. Joints should be taped with Arc Scrim Tape or with Arc Butyl Tanking Tape for 100% waterproofing.

3. Apply a bed of Arc Pro-Flex, High-Flex 55 Standard Set or T-20 Tile Adhesive to the Arc HydroSet Board and bed in the tiles or slabs in accordance with the usual practice.

4. Finish with Arc Pro-Line Grout.
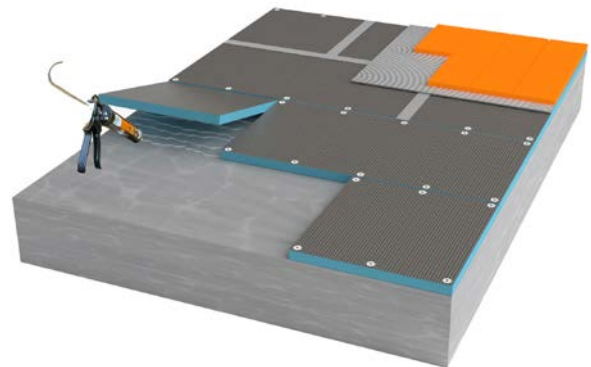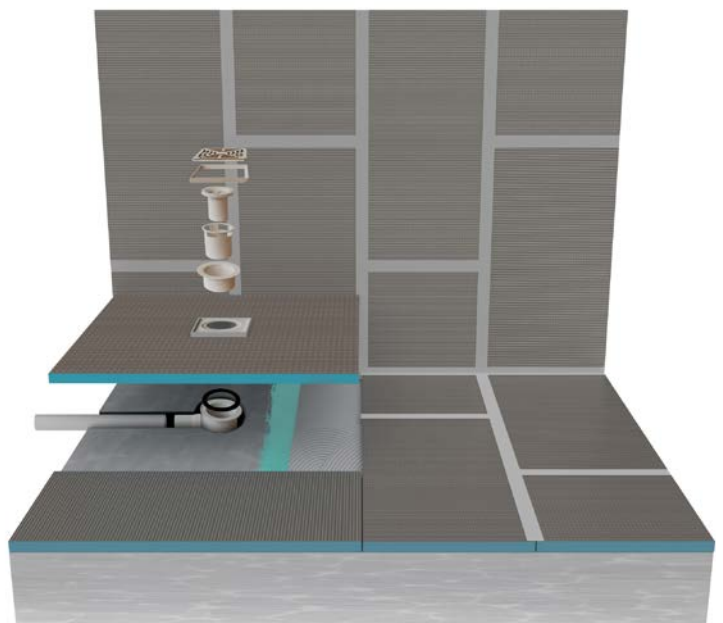
INSTALLATION ON FLOOR (ADHESIVE)
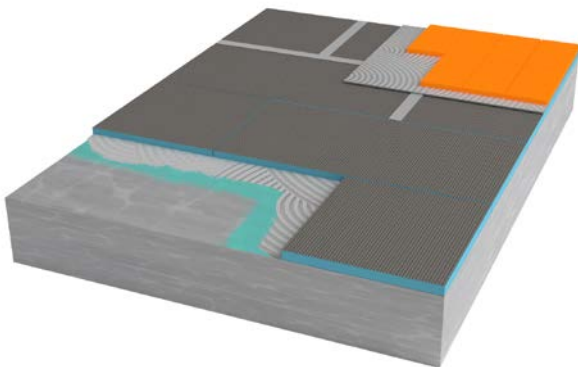
√ Ensure the substrate is structurally sound and free of dust and other contaminants.

√ 6mm to 20mm boards are recommended for floors.

Tiling Guidelines

1. Prime the substrate with Arc Tilers Primer diluted three parts water to one part primer.

2. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive to the substrate and bed in the boards ensuring full surface contact. Boards should be offset so that 4 corners never meet at the same point.

3. Joints should be taped with Arc Scrim Tape or with Arc Butyl Tanking Tape for 100% waterproofing.

4. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive to the HydroSet Board and bed in the tiles or slabs in accordance with the usual practice.

5. Finish with Arc Flexi Grout or Arc Pro-Line Grout.

INSTALLATION ON FLOOR (SCREWS & WASHERS)

√ Ensure the substrate is structurally sound and free of dust and other contaminants.

√ For a stronger fixing MS-11 Rapid High Tack can be applied on the substrate prior to fitting the boards on the floor.

√ 6mm to 20mm boards are recommended for floors.

Tiling Guidelines

1. Using screws and washers, fix boards every 300mm. Fixings should be at least 1 inch from the edges. Boards should be offset so that 4 corners never meet at the same point.

2. Joints should be taped with Arc Scrim Tape or with Arc Butyl Tanking Tape for 100% waterproofing.

3. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive to the HydroSet Board and bed in the tiles or slabs in accordance with the usual practice.

4. Finish with Arc Flexi Grout or Arc Pro-Line Grout.

SHOWER BASES

INSTALLATION ON CONCRETE FLOOR

1. Lay the Shower Base down into the desired position and mark out the drain position on the concrete floor.

2. Dig out a hole big enough to fit the drain. This should be slightly larger than the mark made on the floor and should allow room for the drain's knuckle.

3. Make sure the drain lines up correctly and then connect the pipework to the drain using a PVC pipe adhesive. Place the black rubber ring onto the top of the drain. Ensure the floor is level in all directions.

4. Make sure the area is clear and dust free. Prime the substrate with Arc Tilers Primer diluted three parts water to one part primer.

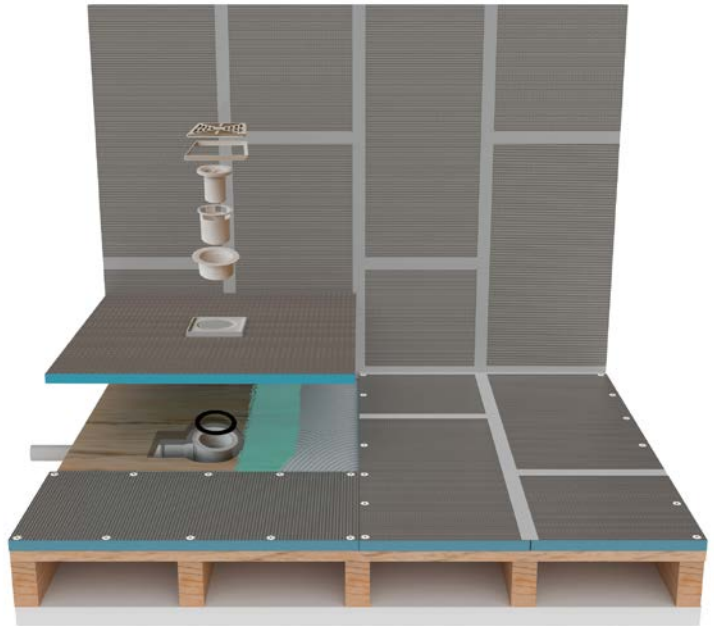5. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive to the floor.

6. Bed in the shower base ensuring full surface contact. Check the shower base is level in all directions.

7. Screw the plastic ring through the shower base into the drain making sure the black rubber ring is in position. Attach all the drain components as shown across. Attach the riser only if the tiles to be applied are thicker than the height of the drain.

8. Using same thickness HydroSet Boards, cover the rest of the floor. See pages 56-57 for HydroSet Boards installation instructions.

9. Joints should be taped with Arc Butyl Tanking Tape. Tiling can begin directly onto the HydroSet Boards and the Shower Base.

*Note: Make sure the shower base and drain are fully supported underneath.

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INSTALLATION ON WOODEN FLOOR - RAISED

1. Timber must be dimensionally stable. Lay the Shower Base down into the desired position and mark out the drain position on the wooden floor.

2. Cut out a hole big enough to fit the drain. This should be slightly larger than the mark made on the floor and should allow room for the drain's knuckle.

3. Make sure the drain lines up correctly and then connect the pipework to the drain using a PVC pipe adhesive. Place the black rubber ring onto the top of the drain. Ensure the floor is level in all directions.

4. Make sure the area is clear and dust free. Prime the substrate with Arc Tilers Primer diluted three parts water to one part primer.

5. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive to the floor.

6. Bed in the shower base ensuring full surface contact. Check the shower base is level in all directions.

7. Screw the plastic ring through the shower base into the drain making sure the black rubber ring is in position. Attach all the drain components as shown across. Attach the riser only if the tiles to be applied are thicker than the height of the drain.

8. Using same thickness HydroSet Boards, cover the rest of the floor. See pages 56-57 for HydroSet Boards installation instructions.

9. Joints should be taped with Arc Butyl Tanking Tape. Tiling can begin directly onto the HydroSet Boards and the Shower Base.

*Note: Make sure the shower base and drain are fully supported underneath.

INSTALLATION ON WOODEN FLOOR - JOIST LEVEL

1. Timber must be dimensionally stable. Lay the Shower Base down into the desired position and mark out with a pencil around the edges of the shower base. Cut out marked area with an electric Jigsaw.

2. Lower supporting shelves between the joists (minimum of 18mm). Make sure that the support is flush with the joists and fully supporting. Place the support into position and check again that the floor is level in all directions.

3. Make sure the drain lines up correctly and then connect the pipework to the drain using a PVC pipe adhesive. Place the black rubber ring onto the top of the drain. Ensure the floor is level in all directions.

4. Make sure the area is clear and dust free. Prime the substrate with Arc Tilers Primer diluted three parts water to one part primer.

5. Apply a bed of Arc Rapid-Flex or High-Flex 55 Rapid Set Tile Adhesive to the floor.

6. Bed in the shower base ensuring full surface contact. Check the shower base is level in all directions.

7. Screw the plastic ring through the shower base into the drain making sure the black rubber ring is in position. Attach all the drain components as shown across. Attach the riser only if the tiles to be applied are thicker than the height of the drain.

8. Use Arc Butyl Tanking Tape around all the edges and over the corners. Tiling can begin directly onto the Shower Base.

*Note: Make sure the shower base and drain are fully supported underneath.

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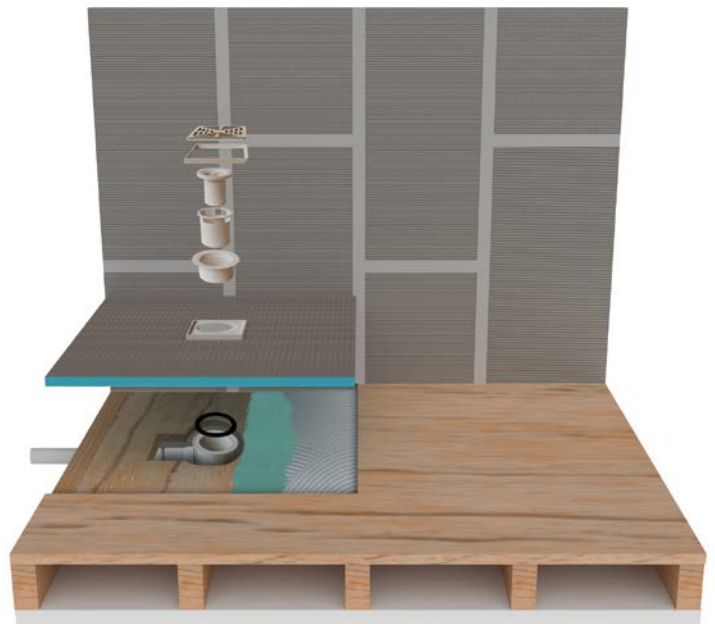
SUBSTRATE PRIMING GUIDE

WHAT IS ARC TILERS PRIMER

Arc Tilers Primer is a high quality styrene butadiene co-polymer emulsion for use as a primer, bonding agent and sealer.

Arc Tilers Primer Plus provides a textured grit finish to difficult substrates such as existing tiles, prior to tiling.

Before tiling, the majority of wall and floor substrates will require priming.

Substrates are primed for the following reasons:
- To improve the adhesion of cement based products.
- Reduce the porosity of porous substrates.
- Arc Tilers Primer Plus improves the adhesion to non porous surfaces.
- Produce a barrier between calcium sulphate based surfaces and cement based adhesives to minimise the risk of chemical reaction.

Arc Tilers Primer is available in 1lt and 5lt.
Arc Tilers Primer Pus is available in 5kg.

For detailed guidelines on the complete substrate preparation see pages 46 to 59.

WALLS PRIMING

SUBSTRATE	PRIMING GUIDE
Plaster	First coat diluted 1 part primer to 3 parts water and allow to dry, followed by a neat coat
Plasterboards	Apply 1 coat diluted 1 part primer to 3 parts water
Sand / Cement Render	Apply 1 coat diluted 1 part primer to 3 parts water
Brick / Block	Apply 1 coat diluted 1 part primer to 3 parts water
Existing Tiles	Apply one coat of neat Arc Tilers Primer Plus
Plywood	Apply 1 coat diluted 1 part primer to 3 parts water

FLOORS PRIMING

SUBSTRATE	PRIMING GUIDE
Sand / Cement Screed	Apply 1 coat diluted 1 part primer to 3 parts water
Anhydrite Screed	First coat diluted 1 part primer to 3 parts water and allow to dry, followed by a neat coat
Concrete	Apply 1 coat diluted 1 part primer to 3 parts water
Plywood	Apply 1 coat diluted 1 part primer to 3 parts water
Existing Tiles	Apply one coat of neat Arc Tilers Primer Plus
Vinyl Tiles / Sheets	Apply one coat of neat Arc Tilers Primer Plus
Asphalt & Bitumen	Apply one coat of neat Arc Tilers Primer Plus
Fibreglass	Apply one coat of neat Arc Tilers Primer Plus
Green Screed	Apply 1 coat diluted 1 part primer to 3 parts water

EUROPEAN STANDARDS

EUROPEAN STANDARDS

All Arc Tile Adhesives and Grouts are manufactured in accordance with European Standards and meet or exceed the standards for each classification.

EN13888 is the general classification for cement based grouts Type C Class G.

EN12004 refers to the general classification for cement based adhesives categorised as Type C. Cement based adhesives with degrees of flexibility or deformable characteristics are categorised as Type C, Class S. Ready mixed or paste adhesives are categorised as dispersion adhesives Type D. Epoxy resin adhesives are categorised as reaction resin adhesives Type R.

GROUTS UNDER EN 13888

TYPE	CLASS	DESCRIPTION
CG	1	Cement based grout with normal characteristics
CG	2	Improved cement based grout with additional characteristics

ADHESIVES UNDER EN 12004

TYPE	CLASS	DESCRIPTION
C	S1	Deformable adhesive
C	S2	Highly deformable adhesive

ADHESIVES UNDER EN 12004 - *CONTINUED*

TYPE	CLASS	DESCRIPTION
C	1	Normal cement based adhesive
C	1F	Fast setting cement based adhesive
C	1T	Normal cement based adhesive with reduced slip
C	1E	Normal cement based adhesive with extended open time
C	1TE	Normal cement based adhesive with extended open time and reduced slip
C	1FT	Fast setting cement based adhesive with reduced slip
C	2	Improved cement based adhesive with additional characteristics
C	2E	Improved cement based adhesive with additional characteristics and extended open time
C	2F	Improved fast setting cement based adhesive with additional characteristics
C	2T	Improved cement based adhesive with additional characteristics and reduced slip
C	2TE	Improved cement based adhesive with additional characteristics, reduced slip and extended open time
C	2FT	Improved fast setting cement based adhesive with additional characteristics and reduced slip
D	1	Normal dispersion adhesive
D	1T	Normal dispersion adhesive with reduced slip
D	2	Improved dispersion adhesive with additional characteristics
D	2T	Improved dispersion adhesive with additional characteristics and reduced slip
D	2TE	Improved dispersion adhesive with additional characteristics, reduced slip and extended open time

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EXPANSION JOINT GUIDE

STRUCTURAL VERSUS MOVEMENT JOINTS

Structural joints are physical gaps which divide a building into smaller sub sections accomodating differential movement between each sub section. Movement joints are small joints designed to absorb localised stresses.

CAUSES OF MOVEMENT

Structural:
√ Structural settlement
√ Structural deformation due to loading
√ Drying shrinkage
√ Ambient thermal gain and loss
√ Wind loading
√ Seismic events

Localised Movement:
√ Drying shrinkage of localised adjacent substrates
√ Small scale localised deformation such as creep
√ Ambient thermal differentials
√ Imposed thermal variations such as underfloor heating

MOVEMENT JOINT

Arc supply two types of movement joints:

1. **Aluminium Expansion Joints** - These movement joint profiles are designed to accommodate localised stresses within tiled floors. The aluminium side section of the profile offers protection to the tile edge while the santoprene infill offers outstanding flexibility, tensile strength and chemical and weathering resistance.
The anchoring angles are aluminium grade 6063 T6, which is heat treated to increase tensile strength.

2. **PVC Expansion Joints** - This is a co-extruded PVC movement cotrol joint designed to appear as discretely as a grout line whilst absorbing localised compression and extension stresses. The PVC is resistant to most chemicals and detergents generally used in tiled applications. It has a detachable anchor which allows the joint to be used a a perimeter joint.

POSITIONING OF MOVEMENT JOINTS

The theory is to create "tile fields" large enough to absorb differential movement between the substrate and the tile covering. Movement joints should be installed in certain areas to prevent tiles or grout from cracking or to prevent the tiles from tenting and becoming debonded from the substrate.
The exact positioning of movement joints is vital to them successfully protecting the installation. Industry guidelines suggest that the maximum tile field should be no more than 10 meters in each direction. In practice, depending on the individual application, it tends to be between 5 and 8 metres.

WHEN TO USE EXPANSION/PERIMETER JOINTS
Based on BS 5385

(A) Any area greater than 2m x 1m where the tiling abuts walls requires perimeter joints as a minimum.
(B) For larger areas, the maximum distance between joints should not be greater than 8m in any direction.
Note: With large format tiles on heated screeds consider reducing this to 6m.

In addition movement joints should always be installed directly above

(1) Changes in the substrate
(2) Structural joints in the substrate
(3) Gaps in the substrate

(A)

3m

1m
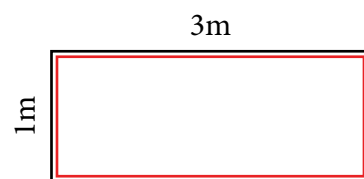
—— Perimeter Joint (MLB)

(B)

12m

4m
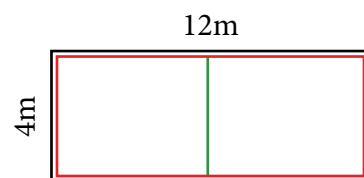
—— Perimeter Joint (MLB)
—— Expansion Joint (MLB or MSA)

INSTALLATION

Ensure the correct depth of movement profile is selected according to tile depth. Using a suitable notched trowel spread the tile adhesive onto the substrate and firmly bed the profile, ensuring the adhesive penetrates the holes in the flange and covers the anchoring legs. Best practice is for the profile to be about 1mm lower than the tile.
A grout joint should be left between the tile and the profile.

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