

Technical Data Sheet

Date of compilation: 27/05/2021

ARC-FIX

DESCRIPTION

Arc-Fix is a fixer friendly easy to apply, non-slip wall tile adhesive for fixing tiles and mosaics in bathrooms, kitchens and domestic shower areas. Arc-Fix adheres to most well-prepared wall surfaces, is easy to apply, and has excellent spreading & non-slip characteristics to suit both the DIY and professional user.

- Off- white ready to use adhesive for internal wall surfaces
- Ready Mixed highly thixotropic paste
- Excellent initial grab and generous adjustability time
- Consistent Non-Slip even with large tiles – no battens needed
- Suitable for domestic shower areas

Arc-Fix is an off-white ready mixed acrylic-based paste, suitable for use as a thin-bed ceramic tile adhesive and conforms to BS 5980 Type 2 Class B (BS EN 12004 Type D, Class 1TE). Suitable for fixing all types of ceramic wall tiles, including mosaics, porcelain and vitrified tiles in internal locations such as bathrooms, kitchens and domestic shower areas. Arc-Fix can be applied to gypsum plaster, plasterboards, cement fibreboard, existing tiles, cement render, concrete block-work, and all types of Tile Backer board. Arc-Fix has an acrylic based formula which gives outstanding non-slip properties even when fixing large & heavy-duty wall tiles.



SURFACE PREPARATION

All surfaces must be clean, firm and free of dust, dirt, oil, grease and loose flaking coatings. Gypsum finishing plaster should be at least 4 to 6 weeks old, thoroughly dry and wiped clean of dust, efflorescence and loose flaking material. Highly polished (shiny) plaster surfaces should be roughened with a stiff brush, removing all loose fines. All plaster and porous masonry surfaces should be primed with Arc Tilers Primer diluted as 1 part to 3 parts with water and allowed to dry. All wood-based surfaces, (including plywood) should be over-laid with Tile Backer boards screw fixed at 300mm centres to provide a dimensionally stable background as described in BS 5385 part 1. All boards must be level, showing no edge protrusions and be fixed in place with a 0.5 to 1mm gap to avoid expansion stresses between the boards and around the wall corners. When tiling over existing tiles ensure they are securely fixed in all areas. Thoroughly clean and dry tiled, or non-porous surfaces and slightly score out joints to provide a key.

Tiles with a surface area of less than 0.1m² but which weigh more per square metre than

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70% of the background's maximum shear load capacity (see Technical Summary table) should be 100% solidly bedded between wall & tile back.

APPLICATION METHOD

Arc-Fix can be used for fixing ceramic tiles or mosaics, use a notched trowel to give a ribbed mortar bed on the substrate, into which the tiles are firmly bedded with a twist and slide action to ensure full contact. Use a 3mm x 3mm notch at 6mm centres for mosaics and thin flat backed wall tiling, a 5mm x 5mm notch at 10mm centres for general wall tiling. The position of the tiles can be adjusted up to 20 minutes after initial fixing. Open time of the exposed ribbed adhesive bed is no more than 30 minutes at 20°C. The final adhesive bed depth should ideally be in the range of 2 to 3mm and contact coverage between the tile back and the adhesive bed should be no less than 75% of the tile area.

Ensure all grout joints are at least 2mm, wide for tiles up to 0.1m² size (>1 600mm) and larger tiles should be fixed with a minimum joint width of 3mm, ensuring at all times the joint is free from excess adhesive residues. Ensure all adhesive residues remaining on the tile face are wiped clean with a moist cloth as fixing proceeds and rake out any excess adhesive still visible from within the grout joints.

Arc Fix should not be applied onto walls affected by penetrating damp; in areas of persistently high humidity or be fixed when the room temperature is below 5°C or likely to be that low in the 24 hours after fixing. When fixing porcelain tiles the drying time of the adhesive will be significantly extended therefore grouting should be delayed until the adhesive is fully dry, additionally any porcelain tiles of size greater than 0.1m² or with one side > 600mm should ideally be fixed using a cement-based adhesive. Additionally, all other types of large format ceramic tile, i.e. those with dimensions of 300mm x 400mm or more, will also significantly prolong the drying time of this adhesive and a cement-based alternative is recommended in such circumstances.

COVERAGE

When fixing on a level, even surface using a 4mm notched mosaic trowel, Arc-Fix will cover at a rate of about 1.6kg per sq.mtr, however for heavy-duty, studed wall tiles, the product will cover at about 2.5 kg per sq. mtr.

GROUTING

Grouting may proceed as soon as the tile bed is sufficiently firm, which depending upon site conditions can be from 24 hours after fixing on porous surfaces such as plaster or up to 7 days where tiles have been fixed to an impermeable surface such as existing tiles.

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STORAGE & PACKAGING

Arc-Fix is supplied in 16kg re-sealable buckets and has a storage life of not less than 12 months if stored in dry, un-opened conditions.

HEALTH & SAFETY

Always ensure that appropriate PPE & overalls are worn when applying this product. Wash hands after use and launder stained clothing. Do not consume food when working and keep children & animals away from any possible risk of contact. Safety data sheet is available on request.

PRECAUTIONS

Not suitable for exterior use or fully immersed areas (e.g. swimming pools) and commercial "wet" areas including power showers. Ideally adhesive bed depths should not exceed 3mm and should never be spot fixed.

TECHNICAL DATA

Unit size	16kg
Colour	Off White
Mean bed depth	3mm
Time till ready to grout	24 hours*
Ribbed bed open time	30 minutes*
Initial Set time	3 hours*
Application Temperatures	5 – 25°C

*Dependent on temperature substrate and site conditions

APPROVED RECEIVING SURFACES

- Concrete
- Sand/cement render
- Tile backer boards
- Gypsum finishing plaster*
- Plasterboard
- Existing tiles**
- Concrete brick/block

**Must be securely fixed

WALL TILES – SUBSTRATE LOAD LIMITS:

Wall substrates should be strong enough to support the weight of the ceramic tile or natural stone to be installed and the weight of the associated adhesive bed. The maximum weight restrictions for wall substrates are given below:

Gypsum plaster (sealed with Arc Tilers Primer)	20.0 kg/m ²
Gypsum plasterboard (12.5 mm)	32.0 kg/m ²
Cement / sand rendering & Concrete	No limit
Lightweight foam-cored tile backer boards	60.0 kg/m ²
Glass reinforced cement-based boards	50.0 kg/m ²
Gypsum fibreboards	40.0 kg/m ²
Other rigid tile backer boards	#

- Consult the manufacturer

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PERFORMANCE TEST DATA

EN 12004 – D1TE	
Normal dispersion adhesive with reduced slip & extended open time for tiling	
Initial Shear adhesion strength	> 1.0 N/mm ²
Shear adhesion strength after heat ageing	> 1.0 N/mm ²
Open Time: tensile adhesion strength (30min)	> 0.5 N/mm ²
Reduced Slip	< 0.5mm
Reaction to Fire	NPD

NOTE

All products should be sold in accordance with the manufacturer's instructions. The manufacturer cannot be held responsible where conditions of use are beyond our control. Full information and advice is freely available from our Technical Services Department e-mail technical@arcbuildingproducts.ie. Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents, or distributors, as the conditions of use and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.