

Technical Data Sheet

Date of compilation: 09/09/2021

ARC RAPID-SET

DESCRIPTION

Arc Rapid-Set is a cement-based, thin-bed ceramic tile adhesive, for fixing ceramic floor and wall tiles, mosaics, natural and lightweight pre-cast cladding brick slips. Arc Rapid-Set forms a strong bond with concrete, render, blockwork and brickwork.

Arc Rapid-Set is fully water-resistant; frost resistant; suitable for interior / exterior use and locations which are subject to regular wetting, e.g. showers, saunas and bathrooms.



SUBSTRATE PREPARATION

The substrate must be structurally sound, dimensionally stable and strong enough to support the tiling installation and expected traffic. Surfaces to be tiled must be clean, suitably dry and free from contamination such as dust, paint, oils, grease, sealers or any other substance which may impair adhesion.

All tiling should be carried out to current best practice and relevant standards. For further information or details of substrates not covered below, consult Arc Tiling Guide.

Concrete: Concrete should be a minimum of 6 weeks old. Prime with Arc Tiler's Primer diluted 3 parts primer to 1 part water.

Power-floated concrete: Mechanically abrade surface and vacuum dust. Prime surface with 1 coat Arc Tiler's Primer Plus.

Sand Cement Screeds: New screeds should be a minimum of 4 weeks old. Prime with Arc Tiler's Primer diluted 3 parts primer to 1 part water.

Gypsum screeds: Screed must be confirmed dry and the residual moisture content must be below 0.5%. Mechanically abrade surface and vacuum dust. Prime surface with Arc Tiler's Primer diluted 3 parts primer to 1 part water followed by one neat coat of Arc Tiler's Primer.

Timber floors: Timber substrates must be sufficiently rigid and supported to be free from excessive deflection under expected loads. Arc recommend overlaying timber floors with Arc MagnaBoards, screw fixed at 150mm centres. Where plywood is used as overlay it must be exterior grade and a minimum of 15mm thick. Prime boards with Arc Tiler's Primer diluted 3 parts primer to 1 part water.

Underfloor Heating: Piped underfloor heating systems must have been fully commissioned to maximum running temperature. Turn off heating 24hrs prior to tiling (or in cold conditions to below 15°C). When tiling is completed allow 7 days before switching on heat-

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ing and increase the temperature gradually by max 5°C per day.

Movement Joints: Ensure there is adequate provision of movement in the tiling installation by the inclusion of sufficient and adequate joints. This is particularly important on heated screeds and with larger tiles.

Priming: Generally prime absorbent surfaces with Arc Tiler's Primer diluted 3 parts primer to 1 part water and non-porous surfaces with 1 coat Arc Tiler's Primer Plus. Allow primer to dry before tiling.

Arc Rapid-Set should be mixed with Arc Latex Admixture when used with low porosity tiles, on timber substrates, on underfloor heating, on impermeable surfaces and on more demanding substrates.

MIX PREPARATION

Do not use when temperatures are below 5°C. Rapid-Set should be added to water in a clean container whilst mechanically stirring and mixed thoroughly to give a soft, slump-free, easily worked mortar. The recommended mixing proportions by volume are 1 part water to 3 parts powder (approx 5L water per 20kg bag). The consistency of the paste can be adjusted with slight additions of water or powder at the initial mixing phase, however part-used adhesive should never be "freshened up" with later water additions.

Arc Rapid-Set will remain workable for 30 to 40 minutes and then reach final set after about 2 to 3 hours.

APPLICATION METHOD

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 and 10mm x 10mm notch at 16mm centres for floor tiling. The position of the tiles can be adjusted up to 5 minutes after initial fixing. Open time of the exposed mortar bed is approximately 5-10 minutes, depending on surface porosity and site conditions. It is recommended that tiles with raised or studded back profiles, (or in situations where dampness is likely after tiling), should be buttered to ensure solid bed fixing. Do not trowel out an area of adhesive greater than can be tiled over within a 5-10 minutes period. Surfaces such as rutted concrete and masonry block-work, that are rough or uneven may first be levelled with Arc Floor Levelling Compound and when sufficiently firm (24 – 48 hours later), is followed by an application of Arc Rapid-Set adhesive as a bed of 3 to 6mm thickness. Expansion joints should be planned and installed in large floor areas in accordance with the recommendations of BS 5385.

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GROUTING

Grouting may proceed as soon as the tile bed is sufficiently firm, which for Rapid-Set will be after approximately 2-3 hours at room temperature. This period will be slowed by lower temperatures and accelerated by higher temperatures.

TILES & SUBSTRATES

SUITABLE TILES

Ceramics, Terracotta, Quarry, Mosaics.

SUITABLE SUBSTRATES

Concrete, Gypsum Plaster, Screeds, Backer Boards, Render, Brick & Block.

TECHNICAL DATA

Pot Life	Open Time	Set Time	Coverage	Depth	EN
30-40 minutes	5-10 minutes	2-3 hours	4-5kg/m ²	3-6mm	12004:C1F

STORAGE & PACKAGING

This product has a shelf life of 12 months if stored in its original unopened packaging in normal dry conditions. It is supplied in 10kg & 20kg multi-ply moisture resistant paper sacks.

HEALTH & SAFETY

For more information and precautions for use refer to the safety data sheet.

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.