



HEAT RESISTANT TILE ADHESIVE



Issue – HR250 / 0215

**FAST SETTING
HIGH EARLY STRENGTH**

**FOR FIXING TILES ON WALLS & FLOORS
SURROUNDING STOVES & HEATERS**

**SUITABLE FOR VITRIFIED
& PORCELAIN TILES**

Description:

HEAT RESISTANT ADHESIVE is specially formulated to provide a high strength durable bond in areas where tiles are fixed on walls & floors surrounding a radiant source of heat which is not in continuous use, nor where the surface is exposed to temperatures in excess of 250°C, such as a domestic log burning fire, cooking range/stove or oven. It is a pale grey powder based blend incorporating special hydraulic binders which when mixed with water gives a non-slump fast setting paste which is suitable for fixing ceramic, porcelain and vitrified tiles in areas surrounding a radiant source of heat. HEAT RESISTANT ADHESIVE should only be used for fixing tiles onto solid masonry surfaces or cement board structures which are stable when exposed to high temperatures. Also confirm that all tiling selected for use in this type of location are similarly heat resistant. HEAT RESISTANT ADHESIVE complies with the requirements of EN 12004 C2FT.

Surface Preparation:

The receiving substrate must be of solid construction and stable when exposed to high temperatures. It must be clean, firm and free of dust, dirt, oil, grease and loose flaking coatings. Worn or porous surfaces should be sealed with TILERS PRIMER [SBR] diluted as 1 to 3 with water. HEAT RESISTANT ADHESIVE is not recommended for application directly onto any substrate which may be subject to shrinkage, warping or any type of movement or degradation when subject to elevated temperatures.

Mix Preparation:

HEAT RESISTANT ADHESIVE 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 1.25 litres per 5kg). The consistency of the paste can be adjusted with slight additions of water or powder at the initial mixing stage, however part-used adhesive should never be "freshened up" with later water additions, but should always be discarded once it appears to lose its' workability. In ideal conditions (20°C room temperature), HEAT RESISTANT ADHESIVE will remain workable for 30 to 40 minutes and then reach final set after about 2 - 3 hours depending on site temperatures, which if high will result in shorter working time.

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 6mm x 6mm notch at 10mm centres for general wall tiling and 8mm x 8mm notch for floor tiling. The position of the tiles can be adjusted up to 10 minutes after initial fixing. Open time of the exposed mortar bed is approximately 20 minutes, depending on surface porosity and site temperatures. It is recommended that tiles with raised or studded back profiles, should be back-buttered to ensure solid bed fixing. Do not trowel out an area of adhesive greater than can be tiled over within a 10 minute period. Expansion joints should be planned and installed in corner and perimeter joints and must be constructed from a suitably rated heat resistant sealant (consult sealant provider). When the tiled area is complete do not expose it to elevated temperatures for a minimum of 3 weeks after fixing as this will allow the adhesive and grout to cure and gain full strength without risking of being dried out too quickly

Coverage:

When fixing on a level, even floor surface using a 10mm notched trowel, HEAT RESISTANT ADHESIVE will cover at a rate of about 2.5kg per sq. mtr for flat tiles on walls however when fixing heavy-duty, studded tiles on floors subject to load a coverage rate of approximately 4.0 kg per sq. mtr should be expected..

Grouting:

Grouting may proceed as soon as the tile bed is sufficiently firm, which at the earliest is 3 to 4 hours after fixing tiles. In view of the temperature range expected the use of a premium quality grout which conforms to EN13888 CG2 is recommended.

Storage & Packaging:

HEAT RESISTANT ADHESIVE is supplied in 2 x 5kg air tight sachets packed in a plastic bucket which can be used as a mixing vessel and has a storage life at least 12 months if stored in dry, un-opened conditions. Should further technical information be required, contact the Palace Technical helpline on 0151 486 6101.

Technical summary:

Mix ratio:	Pot life:	Open time:	Final set:	Coverage:
5kg per 1.25 litres	30 – 40 minutes	20 minutes	2 - 3 hours	2.5 – 4.0 kg/sq. metre

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