

MULTI TILE ADHESIVE 525 ULTRA FAST SET

Ultra Rapid Setting High Strength Cementitious Tile Adhesive

Description

MULTI TILE ADHESIVE 525 Ultra Fast Set is a premixed precise blend of hydraulic cements, shrinkage compensating chemicals, synthetic resins setting accelerators and particle size fillers. The product can be applied at varying thicknesses. It is designed for use in interior and exterior conditions and has a full use in interior and exterior conditions and has a full 60 minutes pot life and final set within 4 hours.

Typical Applications

MULTI TILE ADHESIVE 525 Ultra Fast Set is ideally used to bed mosaics, porcelain and ceramic tiles as well as natural stones and composite materials in interior and exterior conditions on wall and floor.

This includes:

- * Areas subject to frost e.g. balconies, terraces, etc.
- * Areas subject to heavy traffic e.g. shopping centres, factories, etc.
- * Areas subject to floor heating.

Suitable substrates (to be prepared properly) include:

- * Cementitious Plasters, Screeds and Lime Mortar.
- * Concrete, hand floated or power floated.
- * Overlays upon tiles (ceramic or porcelain).

Advantages

- * Pre-blended and easy to apply
- * High Early Strengths
- * Only add water
- * Full set achieved after only 4 hours
- * Low Shrinkage
- * Recommended for use in high traffic areas
- * Minimum delay to traffic and production
- * Minimum inconvenience to clients

Tile on tile

- No removal of old tile
- No preparation of substrate
- No priming needed
- No costly closures
- Significant reduction in time of new tiling
- Minimum inconvenience to patrons.

Typical Properties

Colour:	Brown Powder
Open Time:	10 to 45 Minutes
Application Temp:	+10 to 35
Operating temperatures:	0° c to 100° c
Potlife:	40 to 80 minutes
Flash Point:	nil

Storage Life:	12 months when stored in dry conditions
Grouting:	Floor 1.5 hours Wall 1.5 hours
Trafficable:	4 hours
Toxicity:	Nil
Inflammability:	Nil
Mortar Specific Weight:	1.7 kg/litre

Performances

Compressive Strengths (Mpa)	Bond Strengths (kN) 24 Hours
4 hours	Ceramic to ceramic 7-9
1 Day	Ceramic to porcelain 7-9
3 Days	Porcelain to ceramic 9-11
7 Days	Porcelain to porcelain 10-12
28 Days	

(These trials were conducted in controlled laboratory conditions using 100mm x 100mm tiles.)

Directions for use

Surface preparation

- * All surfaces to be tiled must be sound, free of laitance and dust. All paint, mould oil, grease polish, organic growth and any other contaminants must be removed prior to tiling.
- * Organic growth must be killed and removed with an effective fungicide.
- * Paint in poor condition or on an exterior face, enamel paints and bitumen surfaces must be removed completely using a solvent based paint remover. All painted surfaces should be scabbled or chipped to expose a minimum area of 80% of the original background.
- * Gypsum surfaces should be treated similarly to those of painted surfaces.
- * When fixing new tiles to an existing tiled surface ensure the tiling is sound, clean and free of grease, grime, etc. before fixing new tiles. Solvent wipe tiles exposed to oils, grease, etc.
- * Ensure that the old tiles still adhere firmly to the previously applied adhesive and that the bedding is sufficiently strong to support the added weight of the new tiles.
- * Remove all loose tiles.

Mixing Instructions

MULTI TILE ADHESIVE 525 Ultra Fast Set should be mixed with potable water at a ratio of 20kg adhesive: 4 litres water (5kg adhesive, 1 litre water) to achieve a lump free consistency. Apply product immediately after mixing. Do not add water to re-temper the mix.

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Application

- * Using a notched trowel, spread the adhesive to a minimum bedded thickness of: Walls 3mm, Floors 6mm
- * When used in exterior, industrial and commercial applications or when using heavily lugged, grooved adhesive prior to placing into wet adhesive to avoid dangerous voids under the surface of the tile.
- * Using a twisting action place the tiles firmly into the wet adhesive.
- * For large or heavy tiles use a rubber mallet to firmly bed the tiles into the wet adhesive.
- * To ensure that full contact between the tile and adhesive takes place, occasionally lift a tile and inspect surface contact. .
- * Do not allow adhesive to form a surface skin before adhesive takes place, occasionally lift a tile and inspect surface contact. .
- * Do not allow adhesive to form a surface skin before tiles are bedded.
- * Do not place or spread adhesive over large areas and then tile.
- * Place adhesive just prior to placing the tile. This is to ensure proper contact between the tile and the adhesive while the adhesive is still wet.
- * Before drying occurs, all excess adhesive must be removed from joints and tile surfaces.
- * Allow minimum width grouting joints of: Wall tiling 2mm Floor tiling 3mm
- * Extruded, punched and split tiles: 6mm to 10mm grouting joints.
- * Never butt joint tiles.
- * Grouting can take place 1.5 hours after tiling application.

Movement Joints

Structural, tile panel and perimeter joints that extend through the tiling and its bedding should be incorporated in the installation to counteract stresses caused by these joints.

Joints should be provided for at:

- * 3 metre centres externally
- * 5 metre centres internally
- * around perimeter of all floors
- * around obstructions through the tiling panel

Coverage

MULTI TILE ADHESIVE 525 Ultra Fast Set will cover $\pm 4\text{m}^2$ using a 10mm notched floor trowel and $\pm 8\text{ml}$ using a 6mm notched trowel per 20kg of mixed adhesive.

Packaging

MULTI TILE ADHESIVE 525 Ultra Fast Set is supplied in 20kg bags.

Watchpoints

- * Wear protective gloves and in case of eye contact wash well with clean water and obtain medical assistance if discomfort persists.
- * Do not ingest.
- * Do not discharge into drains.
- * Keep away from children and pets.
- * Clean all equipment immediately after use with potable water.

Guarantee

MCC LIMPOPO's products are guaranteed when used in accordance with correct product application and instruction procedures.

QUALITY ASSURANCE

MCC LIMPOPO's production and testing programmes comply with local and international testing standards.