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SpEC

SpEC Latex WTA

POLYMER MODIFIED CEMENTITIOUS ADHESIVE FOR TILE, STONE AND MARBLE

DESCRIPTION

SpEC Latex WTA is a pre-packed blend of Portland cement, graded aggregates and polymer powder additive. Addition of clean mixing water provides a creamy bedding mortar suitable for a wide range of tile, stone and marble installation.

TYPICAL USES

SpEC Latex WTA may be used as a thin-bed or a thick-bedding mortar for interior and exterior installation of tiles, stone cladding, slip bricks, glass mosaics and certain rigid boards. Such installations include, but are not limited to:

- Floor and wall tiles in wet areas, balconies, facades, plaza decks, corridors, etc.
- Ceramic and mosaic tiles in swimming pools, fountains and the like.
- Slip bricks, glass blocks and similar decorative elements.
- Wet fixing of stone and marble cladding (subject to weight limitation; see application section).
- Rigid insulation boards, acoustic boards, etc.

Suitable substrates include concrete, sand/cement plaster and masonry. For gypsum boards and other substrates, see Application Section or consult SpEC's Technical Department for advice..

ADVANTAGES

- High bond strength
- Excellent waterproof characteristics
- Long pot life and open time
- Flexible and shock resistant
- Suitable for thin-bed and thick-bed applications
- Pre-packed - no site blending of powders and liquid admixtures

RELEVANT STANDARDS

SpEC Latex WTA conforms to the following international standards:

ANSI A 118.4/C2TE

BS 5980 Class A

TECHNICAL DATA

Wet density	2083 kg/m ³
Pot life @ 25°C	1 hr - 30 minutes
Open time @ 25°C	30 minutes
Shear bond porcelain tile	
7-day cure	3.15 N/mm ²
Shear bond porcelain tile	
water immersion	2.68 N/mm ²
Water absorption	0.92%
Compressive strength	
@ 7 days	18.6 N/mm ²
@ 28 days	24.6 N/mm ²
Tensile bond, 950 (Min)	
@ 14 days	1340 N
Shear adhesion	
@ 14 days	22.8 kN
Coefficient of Linear thermal expansion @ 100°C for 16 hrs	0.028
TCA Service Rating	Passed
Colours	Grey & White

APPLICATION

Surface Preparation

Substrates should be structurally sound and free from dust, dirt, grease, oil, sealers, old coatings and curing compounds prior to the application of **SpEC Latex WTA**. All holes, cracks and other damaged areas should be made good.

On cementitious substrates, saturate the surface with clean water before applying the product, but remove any excess water from the surface.

Mixing

SpEC Latex WTA must be mixed using a slow speed electric drill (300-350 rpm) with a suitable paddle attachment. Measure 4.5 liters of clean water and pour into a suitable container. Add the bagged powder slowly whilst mixing for 2-3 minutes to obtain a smooth, creamy consistency, paying attention to the sides and bottom of the container.

Allow to stand for about 10 minutes and remix before application.

Application

Apply **SpEC Latex WTA** to a depth of 3-6mm on a working area of not over one square meter at time. Solid bed fixing is recommended for wet areas in general and for floor tiles, while in other situations the adhesive may be ribbed horizontally with a notched trowel before fixing tiles. Do not pre-soak ceramic tiles. Press dry tiles into place with a twisting motion to ensure good contact (at least 75%) with the adhesive and tap into place. Remove any excess adhesive from the face of tiles with a damp cloth before it sets. Small adjustments to tile positions can be made within about 20 minutes of installation. Do not readjust after this time. Leave to cure for a minimum of 24 hours before grouting.

Floor Tiles: No traffic should be allowed on the tiled areas for a minimum of 4 days. Grout tiles after this period.

Wood and Gypsum Board: Prime the substrate with **SpECbuild BA10** before applying the adhesive. Follow directions on **SpECbuild BA10** data sheet for priming.

Stone Cladding: Prime the substrate with **SpECbuild BA10** as directed on the data sheet. Apply the adhesive thick-bed to the back of the cladding and not on the substrate. Press firmly into place while the primed substrate is tacky. For wet fixing, weight of stone cladding should not exceed 35 kg/m².

Movement Joints: Provide movement joints in tiled areas as per local standards or to BS 5385.

EQUIPMENT CLEANING

Tools and equipment should be cleaned immediately using water. Cured material can only be removed mechanically.

PACKAGING & YIELD

SpEC Latex WTA is supplied in 25 kg bags. Each bag when mixed with 4.5 litres of mixing water will provide approximately 14 litres of mixed material.

Usage rate

3mm solid bed	4.70m ² /bag approx
6mm solid bed	2.35m ² /bag approx

STORAGE & SHELF-LIFE

The material has a shelf life of 9 months when stored off the ground in dry and cool conditions. Discard any open or damaged bags.

HEALTH & SAFETY

SpEC Latex WTA contains alkalis and protection should be provided to prevent contact with skin and eyes. Dust inhalation must be avoided during mixing. It is strongly recommended to wear gloves, goggles and dust mask while mixing and using the product. Skin contact shall be washed immediately with plenty of soap and water. Contact with eyes shall be washed immediately with copious amounts of clean water, followed by medical attention.

Dispose of all waste in accordance with the local environmental regulations.

Other SpEC Tile Products:

- **SpEC Rainbow Grout** - Cementitious Tile Grout (Standard and Wide Joint Grades)
 - **SpEC Rainbow Grout LM** - Polymer Modified Cementitious Tile Grout (Standard and Wide Joint Grades)
 - **SpECtite ETA** - Chemical Resistant Epoxy Tile Adhesive and Grout
 - **SpEC Tuftile** - Colored Germproof Epoxy Tile Adhesive and Grout
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