

B25

TECHNICAL DATA SHEET

JUNE 24

FEATURES AND BENEFITS

1. Single component, just add water
2. High strength, polymer modified
3. Economical & Easy to use
4. Bonds to various substrates
5. Exceeds IS 15477:2019 – Type3 T Adhesive standards.
6. Water and shock resistant.

INSTALLATION TYPES

Substrates

- Concrete & Concrete Masonry
- VDF / Tremix Concrete
- Cement Mortar Beds / Plaster
- Ceramic tile, Vitrified Tile and Natural Stone/ Glass mosaic tile
- Brick Masonry
- Cement Backer Board**
- Cement Terrazzo

SURFACE PREPARATION

B25 is designed for installing all types of ceramic tiles, glass mosaic tiles, precast terrazzo, and natural stones on floors and walls, both indoors and outdoors.

It works well on concrete and various other surfaces. The strong underwater bond makes it suitable for wet areas like swimming pools, saunas, water features, and washrooms. It can also be used as a slurry bond adhesive for “wet on wet” and “tile on tile” applications..

Smoothing Rough Surfaces

- Check that surfaces are level and true to plumb within ¼ inch (6mm) over 10 feet (3m).
- Smooth out rough or uneven concrete with Screed/Plaster material for a wood float (or better) finish.

Preparing the Concrete Slabs:

- Dampen dry, dusty concrete slabs or masonry and sweep off excess water. Installation can be done on a damp surface.
- New concrete slabs should be damp-cured and at least 28 days old before application. (No minimum cure time if thin-set mortar is mixed with latex additive.)
- **Handling Expansion Joints:**
Provide expansion joints through the tile work at all construction or expansion joints in the substrate. Do not cover expansion joints with thin-set mortar.

MIXING PROCEDURE

Mixing: Pour clean, drinkable water into a clean mixing bowl. Add B25 High Flex powder into the bowl. Use about 5.5 to 6 liters of water for every 20 kg of powder.

Mix the combination by hand or with a slow-speed mixer until it is smooth and easy to spread. Let the mixture



sit for 5 minutes. If needed, adjust the consistency. Remix and apply with a notched trowel of the correct size.

APPLICATION PROCEDURE

TILE/STONE INSTALLATION

Applying Adhesive:

- Spread B25 adhesive on the surface using the flat side of a trowel, pressing it firmly into the surface.
- Use the notched side of the trowel to apply more adhesive, ensuring a full bed for the tile.
Only spread enough adhesive that can be covered with tile within 10 minutes.
- For large tiles (over 12"x12"), apply adhesive to the back of the tile as well to ensure full support.

Placing Tiles:

- Place tiles into the wet adhesive and tap them with a rubber mallet to ensure they are level and well-embedded.
- Check periodically by lifting a tile to ensure full adhesive coverage on the back.
- Use spacers to maintain even grout joints, as recommended by your architect or engineer. Remove spacers once the adhesive is firm.

Handling Skinned Over Adhesive:

- If the adhesive is no longer sticky, remove it and apply fresh adhesive.

GLASS MOSAIC TILES INSTALLATION

Applying Adhesive:

- Apply B25 adhesive using a notched trowel to ensure good contact with the surface.
- Use a 4mm notched trowel for a bed thickness of 1.5-2mm or a 3mm V-notch trowel for a 1.5mm bed.
- Only spread adhesive that can be covered within 10-15 minutes while it is still tacky.

Placing Tiles:

- Set the glass mosaic tiles in place and gently tap them with a mallet or grouting float for full bedding.
- Align the tiles to achieve uniform joints and let them set until firm.
- Clean excess adhesive from the tile surface with a wet cloth or sponge before it hardens.

Note for Specifiers and Installers:

- When installing tile or stone on exterior walls and floors, leave spaces between the tiles/stones to be filled with cement-based grout mixed with grout admix plus or flexible grout.



- This prevents surface movements from causing de-bonding by allowing some flexibility.
- Ensure joints around the periphery of the installation area to avoid binding the tiles/stones with the surrounding masonry or plaster.

GROUTING:

Start grouting after letting it cure for at least 24 hours.

COVERAGE

A 20 kg pack of B15 can cover approx 55-60 sft when applied with a 1/4 inch by 1/4 inch (6mm x 6mm) square-notched trowel, creating a 3mm thick layer. The actual coverage may vary based on the size of the trowel notches, the type and size of the tiles, and the smoothness and evenness of the surface being tiled.

SHELF LIFE

Pot Life 3 - 4 hours

Time to Heavy Traffic 16 - 24 hours

Open Time : 30 Mins

- Specifications subject to change without notification.
- Results shown are typical but reflect test procedures used.
- Actual field performance will depend on installation methods and site condition.

IS Data		
PROPERTY: TEST METHOD	REQUIREMENT	TYPICAL VALUES
Tensile Adhesion Strength		
Dry Condition	Min 1.50 N/mm ²	1.6-1.8 N/mm ²
Shear Adhesion		
Dry Condition	1.50 N/mm ²	1.7-1.8 N/mm ²