bandhan®

B35 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 – Type 3 TS1 Adhesive standards.
6. Water and shock resistant.

INSTALLATION TYPES

Substrates

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

SURFACE PREPARATION

Specifically formulated for both interior and exterior installations of all kinds of ceramic tiles, vitreous and semi-vitreous tiles, glass mosaic tiles, precast terrazzo, and natural stones on concrete and various substrates. Its strong underwater shear bond makes it suitable for use in wet environments such as swimming pools, saunas, water bodies, and washrooms. Additionally, it is effective for tile-over-tile applications and can be used as a slurry bond adhesive in wet-on-wet applications.

Cleanliness:

- Clean surfaces of dirt, oil, grease, loose paint, laitance, concrete sealers, or curing compounds.

Smoothing Rough Surfaces

- Verify surfaces are true to plumb; slabs must be within ¼" (6mm) in 10 ft (3m) to be considered plumb and true.
- Smooth rough or uneven concrete surfaces with Screed/Plaster material to achieve at least a wood float finish.

Preparing the Concrete Slabs:

- Dampen dry, dusty concrete slabs or masonry, and remove excess water before installation; installation can proceed on damp surfaces.

New concrete slabs must be damp cured and at least 28 days old before application, except when thin-set mortar is used with a latex additive, which requires no minimum cure time.

Handling Expansion Joints:

- Incorporate expansion joints in tile work corresponding to any construction or expansion joints in the substrate; avoid covering these joints with adhesive mortar.

MIXING PROCEDURE

Mixing: Pour clean, potable water into a clean mixing bowl. For grey B35 powder, use about 5.5 to 6 liters of water per 20 kg of powder, and for white, use 6.0 to

6.5 liters per 20 kg. Mix manually or with a slow-speed mixer until you achieve a smooth, trowelable consistency. Let the adhesive rest for 5-10 minutes, then adjust the consistency if needed. Remix the adhesive and apply using the appropriate sized notched trowel. Note that replacing water with latex admix, either partially or completely, will improve the bond strength and flexibility of the thin-set mortar.

APPLICATION PROCEDURE

TILE/STONE INSTALLATION:

First, apply adhesive to the base using the flat side of the trowel to ensure it firmly adheres to the surface. Then, apply additional adhesive with the notched side of the trowel. Select the appropriate size of notched trowel to guarantee complete coverage under the tile. Only spread as much adhesive as you can cover with tiles within 10 minutes. For large format tiles (larger than 12"x12"), apply adhesive on the back of the tile as well to ensure thorough support. Periodically lift a tile to check for adequate adhesive coverage on the tile's back. Use spacers to maintain consistent grout joints as specified by the architect/ engineer, removing spacers once the adhesive has set. Replace any adhesive that has dried out (not tacky) with fresh adhesive.

GROUTING:

Begin the grout installation after allowing at least 24 hours of curing time. Use Sanded Grout or Unsanded Grout, combining it with Grout Admix Plus.

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: 35 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 – Annex A (Clause 5.1)	Min 1.5 N/mm^2	1.7-1.8 N/mm^2
Shear Adhesion		
Dry Condition – Annex B (Clause 5.1)	1.00 N/mm^2	1.5-1.6 N/mm^2