

B15

TECHNICAL DATA SHEET

JUNE 24

FEATURES AND BENEFITS

1. Single component, just add water
2. Interior applications, polymer based
3. Economical & Easy to use
4. Bonds to various substrates
5. Exceeds ANSI A118.1 T shear bond strength requirements
6. Complies with EN / ISO with a C1T classification.
7. Exceeds IS 15477:2019 – Type 2 T Adhesive standards.
8. Can be fortified with latex admix for use on external Wall area.

INSTALLATION TYPES

Substrates

- Concrete / Concrete Masonry
- Cement Mortar Beds / Plaster
- Ceramic Tile* / Brick Masonry
- Cement Terrazzo*
- Existing Vitrified Tile*, Natural Stone* & Ceramic Tile*
- * Surface to be cleaned and roughened before installation

SURFACE PREPARATION

The Bandhan B15 adhesive is specially formulated for use in various interior and exterior installations. It is ideal for setting all types of ceramic tiles, vitrified tiles and precast terrazzo. This adhesive is suitable for application on concrete surfaces and a range of cement-based substrates. It

can be used for bed thicknesses of up to 12mm, ensuring strong and durable bonding for your flooring and wall installations.

Surface Check:

- Ensure the surface is vertically aligned (plumb) and even
- All slabs must be within ¼ inch (6mm) variation over a 10-foot (3m) span.

Smoothing Rough Surfaces

- Smooth out any rough or uneven concrete surfaces using B15
- Screed/Plaster material.
- Aim for a wood float finish or better.

Preparing the Concrete Slabs:

- Damp down dry, dusty concrete slabs or masonry and sweep off any excess water.
- Tiles can be installed on a damp (not wet) surface.
- New concrete slabs should be damp cured and at least 28 days old before tiling.

Handling Expansion Joints:

- Expansion joints must be included in the tile work to align with any construction or expansion joints in the substrate.
- Do not cover expansion joints with thin-set mortar.

MIXING PROCEDURE

Mixing: First, pour clean, drinkable water

into a clean mixing bowl. Add Bandhan B15 powder into the bowl, using about 5.5 to 6 liters of water for every 20 kg of powder. Mix the adhesive by hand or with a slow-speed mixer until it reaches a smooth, spreadable consistency. Let the mixture sit for 5 minutes to allow it to slake. If needed, adjust the consistency by adding a little more water or powder. Afterward, remix the adhesive and apply it to the surface using a notched trowel of the appropriate size.

APPLICATION PROCEDURE

Prepare the Surface:

- Use the flat side of a trowel to spread Bandhan B15 adhesive onto the surface. Press firmly to ensure the adhesive works into the surface.

Comb the Adhesive:

- Use the notched side of the trowel to add more adhesive.
- Ensure you use the correct notched trowel size for full tile bedding.
- Spread only as much adhesive as you can cover with tiles within 10 minutes to prevent it from drying out.
- For tiles larger than 12"x12", apply a layer of adhesive to the back of the tile to ensure full bedding and strong support.

Placing the Tiles:



- Press tiles into the wet, sticky adhesive. Use a beating block and rubber mallet to gently tap the tiles, embedding them and ensuring they are level.

• **Checking Coverage:**

- Periodically lift a tile to check if the adhesive covers the back of the tile completely.

Using Spacers:

- Use spacers to create even grout joints between tiles or stones. Follow the architect's or engineer's recommendations for joint width. Remove spacers once the adhesive has set firmly.

Grouting

Curing Time: Allow a minimum of 24 hours for the adhesive to cure before beginning the grouting process.

Mixing Grout: Use Bandhan B07 Sanded or Unsanded Grout mixed with Bandhan B15 1776 Grout Admix Plus for grouting.

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 : 25 min

- 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.

Replacing Skinned Adhesive:

If the adhesive surface becomes dry and loses stickiness, remove it and apply fresh adhesive.

IS Data		
PROPERTY: TEST METHOD	REQUIREMENT	TYPICAL VALUES
Tensile Adhesion Strength		
Dry Condition - Annex A (Clause 5.1)	Min 1.00 N/mm ²	1.15-1.25 N/mm ²
Shear Adhesion		
Dry Condition - Annex B (Clause 5.1)	1.00 N/mm ²	1.45-1.55 N/mm ²