

## TECHNICAL DATA FOR BS TILEASY

### Thinset Adhesive Mortar for fixing Tiles, Indoors, 3mm Onwards

#### Description of BS TILEASY

BS Tileasy is an easy to use, quick working, inorganic materials based, cementitious polymer modified tile fixing mortar.

It has the bond strength and inbuilt flexibility configured as per tropical weather conditions affecting movement in structures.

BS Tileasy provides very good adhesion of Tiles or Stones cladding to plastered surface, precast wall, ply-board, AAC Blocks and brickwork.

BS Tileasy should be used for fixing Ceramic Tiles, Glazed tiles, Semi-Vitrified tiles, Terrazzo & Mosaics. It is also suitable for Tile on Tile application on substrates like Terrazzo, Vitrified Tiles, Marble or Glazed Tiles.

#### Advantages of BS TILEASY

1. **Thin set or Thick-bed Application:** Mortar Bedding can be from 3mm onwards to 8mm
2. **High Grade bonding:** It is suggested for tiles also up to 3ft by 3ft
3. **Waterproof Quality:** Perfect for Hotel Showers, Saunas, swimming pools & water-bodies.
4. **Anti-Slip Performance:** Designed for vertical tile fixing application on walls or facade. Excellent Vertical Anchoring for Tiles weighing up-to 38 Kg per Sqm.

#### Recommended Application of BS TILEASY

BS Tileasy is the proper adhesive for fixing small to large tiles even on difficult substrates and less-porous tiles (<3% and > 0.08%) and can be used with confidence in all wet process applications. Typical Applications are:

- Tile on Tile Application.
- Wet areas such as showers, bathrooms & pools.
- Commercial food processing zones
- Podium, Pavement & Roofs
- Hospital, Laboratories & Hotels
- Granite fixing for flooring limited wall application

#### Properties of BS TILEASY

Appearance	Freely flowing grey powder with minute aggregates
Water to Powder Ratio by wt.	0.180 – 0.220
Fresh wet density	1.70 Kg / Litre
Open Time as per EN 1346	: > 0.5 N/mm <sup>2</sup> (For 10 mins)
Tensile Adhesion at ambient temperature as per EN 1348	: > 0.5 N/mm <sup>2</sup>
Slip Resistance as per EN 1308	: ≤ 0.5 mm
Tensile Adhesion under water as per EN 1348	: > 0.5 N/mm <sup>2</sup>
Heat Ageing as per EN 1348	0.5 N/mm <sup>2</sup>
Allow Foot traffic & Grouting	After 24 Hours at 25°C
Chloride content	Less than 0.2%
* Please Note: Above properties are checked at water to powder ratio of 0.210.	

#### APPLICATION of BS TILEASY

Ensure that the surface is stable, clear from any loose particles and is solid enough to take load. Any kind of material such as dried paint spots or grease / Oily exposure that act as bond barriers should be removed / grind off/ chiselled from the surface.

#### Removing Unevenness in Plaster/ Brick Wall / Block Wall:

BS TILEASY does not require broom finish on wall plaster. It is recommended to be applied on plain, smooth & levelled plaster to achieve recommended coverage results.

In case site has rough finish plastered surface, then it may be made level by using a levelling skim coat prepared by using cementitious polymer plaster made by admixing 4% BS Smartbond 100 of cement quantity in the sand cement plaster mix. Allow this levelled surface to cure for 48 hours before starting application.

If the surface is highly absorbent as may be in case of AAC blocks or uncured cement substrate it should be sealed with BS SmartBond 100 in one or two coats by brush with an interval of 4 hours between each coat. Allow it to dry for 8 to 12 hours.

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If the concrete screed is newly cast, then it should be allowed to cure properly so that most of the shrinkage movement is complete.

#### Preparation of BS TILEASY mortar

**Add 3.3 to 3.5 Litres of potable water to a 20Kg bag of BS TILEASY.** Pour water first in a clean mixing container. Add BS TILEASY powder to the water gradually stirring with a hand mixer until the mix is lump free & in a plastic state.

#### Application of BS TILEASY

**Tool Needed:** Notched Trowel of 6mm for 3mm standard application, Ensure that BS TILEASY application is done using notched trowel that is specially made of tile mortar installation.

Start by applying a layer of about 6 mm thick prepared material on the substrate using the plain side of the trowel as shown in the image below.



Notched Trowel for BS Tileasy Application.



Apply Adhesive using Plain Side of Trowel

When the applied paste is still wet, softly comb down the applied layer of mortar with the notched side of the trowel, as shown in the image.



Use the Notch sized to control adhesive application as needed.

Prepare only that much mortar paste that can be used within the suggested open time of 20 minutes.

Applicators should check the condition of mortar open time by touching. If mortar feels dry/hard and is not OK to be used do not add water to make it workable again.

Apply the paste in 90 Degrees to the direction of grooves at the back of tile or opposite to the groove direction.



Application of BS Tileasy on Wall over smooth levelled / plastered surface.

**Important:** Please note if the tile size is larger than 4 Sq.Ft, the tile has to be back buttered or the BS TILEASY mortar

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paste has to be applied also on tile also apart from the substrate to ensure 100% bond contact.

Place the tile on the BS TILEASY mortar layer and set by gently pushing it in place, so that the tile base comes in complete contact with the mortar bed.

Tile can be adjusted within 20 minutes as per the open time of BS TILEASY mortar system. Clean out the extra adhesive from the tiles using a damp cotton cloth or sponge pad and clear the tile joints for installing grout before the mortar hard sets.

Please ensure that the ceramic tiles have a minimum space of 2mm around tiles and should not be butt jointed. Use spacers as a good practice  
Grouting of tile joints should start after 1 day of tiles being fixed.

#### Suggestion for BS TILEASY Application

1. If a non-absorbent surface like painted or coated surface is present, the BS Tileasy can be modified with BS Smartbond 100 @2% by volume. Do a trial first or check with our technical department.
2. Movement joints should be provided as per recommendation of local standards or BS 5385.
3. Do not apply at temperatures below 5 degree & above 40 degrees Celsius
4. Start tiling work early in summers to apply mortar in temperature below 38 degrees Celsius or use ice to cool the mixing water to maintain the open time of BS TILEASY mortar.
5. Do not reuse the dried / hardened mortar or mix it with fresh mortar. Once BS TILEASY is mixed & prepared with water the polymers are activated
6. The mortar layer thickness of BS Tileasy should be less than 12 mm on horizontal surface and less than 8 mm on vertical surfaces.

#### Consumption Table of BS TILEASY

Required Notch Size*	Area Covered by Mortar
6mm for 3mm bedding	About 2.8 kg/m <sup>2</sup>
8mm for 4mm bedding	About 3.5 kg/m <sup>2</sup>
10mm for 5mm bedding	About 4.1 kg/m <sup>2</sup>

\*Consumption rates may vary due to variance in surface roughness, the surface profile behind the tile, if the tiles are back buttered & skill of the applicator.

#### Packaging: 20 Kg, Lined, Moisture Resistant Sacks

#### Storage & Shelf Life of BS TILEASY

The product is to be stored under shade, proper cover, stacked not more than 12 on pallets, free from moisture & sunlight. Expected shelf life of 12 months