

# JSW TYLFIX TYPE 1

## TILE ADHESIVE FOR FLOOR & WALL - CERAMIC TILES



### DESCRIPTION

**JSW Tyifix Type 1 Pro** is a polymer-modified, grey cement-based thin-set tile adhesive for fixing high porosity (greater than 3%) tiles like ceramic/ clay of regular size (size not more than 300 mm X 300 mm). It is suitable for both vertical and horizontal surfaces, over the cementitious substrate for indoor applications in dry areas. It also recommended for installation of vitrified tiles on the floor.

### FEATURES AND ADVANTAGES

- Easy to use - add water as per the recommended W/P ratio, on site and ready to use
- Can be used in internal dry areas, for floor as well as wall applications
- Better adhesive bond strength & bonds to various cement-based substrates
- Self-curing properties

### AREA OF APPLICATION

Flooring and walls for internal applications in dry areas.

### AREA OF USE

#### Materials to be fixed

All types of ceramic tiles and bricks are vitrified as recommended to fix on the floor.

#### Surface/substrate

Cement-based screeds, plasters, mortars, concrete surfaces and bricks.

### METHOD OF APPLICATION

#### Floor Tiling

- The substrate to be tiled must be a hard PCC or IPS substrate without undulations & levelling
- The surface to be tiled should be sound and thoroughly cleaned. It should be free from wax, grease, polish, etc.
- Add 3.5 - 4 parts of powder to 1 part of water
- Mix with a trowel or slow-speed drills (50 - 100 rpm) until a lump-free homogeneous paste is obtained
- Always mix the required quantity, which can be consumed within 60 minutes of pot life
- Leave mixture for 5 minutes before applying
- Spread the adhesive to a thickness of approx. 3 - 6 mm and comb with a notched trowel. Strictly apply the adhesive paste which can be tiled within 10 to 15 minutes
- Intermittently touch the adhesive paste on the substrate with a finger. If the adhesive sticks to the finger then continue tiling, if not, scrape off the adhesive and apply a new coat
- Press the tiles firmly into position with a slight twisting action, checking periodically that good contact is maintained
- with the back of each tile and beat in using rubber mallet to imbed tile and adjust level
- Leave no voids behind tiles
- For larger tiles or irregular surfaces, adhesive can additionally be buttered on the backs of the tiles to ensure full adhesive contact
- Use suitable support along with adhesive for fixing tiles on vertical surfaces
- Leave adequate joints between individual wall and floor tiles using spacers. The joint width shall be as per the recommendation of architect/ engineer
- Clean off extra adhesive from the tile face and between joints
- Clean tools and tile work with water while adhesive is fresh

### STANDARD COMPLIANCE

IS : 15477:2019 TYPE 1, CIT(Cementitious Standard Slip - Resistant) as per EN 12004:2017.

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### TECHNICAL DATA

PARAMETERS	RESULTS
Tentative mixing ratio (Powder: Water)	3.5 : 1 by volume; 1 : 0.22 by weight
Mixed density	1.7 - 1.9 kg/ ltr
Table flow	180 mm
Open time (IS 15477 : 2019)	Approx. 20 minutes
Adjustability (IS 15477 : 2019)	Approx. 20 minutes
Pot life	Approx. 60 minutes
Tensile adhesion strength as per Is15477	0.5 N/ mm
Application temperature (substrates & materials)	5°C to 35°C
Adhesive thickness	3 - 12 mm
Setting/ trafficable time	24 hours

### PERFORMANCE PROPERTIES AS PER IS: 15477 : 2004 (TYPE 1)

PARAMETERS	RESULTS
Shear adhesion in dry condition (24 hours)	4 - 6 KN
Shear adhesion in dry condition (14 days)	10 - 12 KN
Shear adhesion as per heat aging	7 - 9 KN
Shear adhesion in wet condition	10 - 12 KN
Tensile adhesion in dry condition	1000 - 1400 N
Tensile Adhesion in wet condition	700 - 1000 N

### PERFORMANCE PROPERTIES AS PER IS 15477: 2019 (TYPE 1 'T')

PARAMETERS	RESULTS
Tensile adhesion in dry condition	0.5 - 1.0 N/ mm <sup>2</sup>
Shear adhesion in dry condition	1.0 N/ mm <sup>2</sup>
Slip resistance (T)	0.1 - 0.5 mm

### COVERAGE

- Approx. 5 - 6 m<sup>2</sup>/ 20 kg Bag at 3 mm thickness (using 6 mm x 6 mm notch)
- \*Coverage will vary depending on trowel notch size, type, tile size and substrate smoothness and evenness.

### PACK SIZE

- 20 kg bag

### BEST BEFORE

- 12 months for sealed pack when stored under cover, out of direct sunlight, damp-proof condition and protect from extremes of temperature.

### SAFETY PRECAUTIONS

- Keep away from children
  - Wear suitable protective clothing, gloves and eyes/face protection
  - After contact with skin, wash immediately with plenty of clean water
  - In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice
- Limited to professional use only. For more details please refer the relevant material safety data sheet, available on request

**Disclaimer:** JSW construction chemical dry mix products are guaranteed against material and manufacturing defects. The product is sold as per standard terms and conditions of sales, copies of which may be obtained on request. JSW's endeavor is to ensure correct and accurate information on product performance and recommended specifications as mentioned in literature, and still may have to abstain from circumstantial deviations which are beyond control due to human intervention, atmospheric conditions or natural calamities which may not be in accordance with any advice, specification, recommendation or information given by it.

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