

## TECHNICAL DATA SHEET



**Extra Grey-455** is a highly polymer modified cement based thin set mortar used for installation of ceramic tiles, stone, quarry tiles, glass mosaic tiles on most of the substrates to accommodate movements. It is a single component adhesive which can be used for application on both interior and exterior wall / floors.

### Suitable Substrates

- New and old concrete surfaces
- Plastered surfaces
- Cement screed beds
- Bricks and AAC Blocks
- PCC and IPS flooring
- Cement Terrazzo
- Cement mortar beds
- Cement fibre board (internal application)
- All type concrete floors and walls
- Gypsum board

### Benefits

- All weather high performance adhesive
- Single Component
- Good Open time
- Polymer Modified for flexibility and high adhesion



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## ◆◆ Application Process

### ◆◆ Surface Preparation :

- The surface to be covered with tile/ stone shall be sound , rigid, clean and free of dirt, oil, grease, loose plaster and paint. For best results , ensure that the surfaces should be level and true within:
- Walls – 3mm in 2.5m Floors – 1.5mm in 1.0m
- Dry, dusty substrate should be dampened and extra water should be swept off  
In case of new plaster, it is necessary to ensure it is cured sufficiently before application of tile adhesive.
- Proper care should be taken to clean the back of tile and to ensure that it is dust free.

### ◆◆ Mixing

- Mix 20kg bag of Extra Care Grey in approx 5 litre to 6.5litre of clean potable water and mix thoroughly either by hand or slow speed mixed until a slump free mortar is achieved.
- Allow it to slake for 5-10 minutes and remix.
- Mix only appropriate quantity which can be used immediately.
- Care should be taken to mix powder in water and not vice versa.

### ◆◆ Application

- Spread the adhesive uniformly on the surface as required with proper notch trowel to get the required depth of 6-12mm. The adhesive shall be applied with the flat side of the trowel using a scraping motion to work the material into good contact with the surface to be covered. The Trowel notch size should be selected carefully according to the size of the tile.
- Tile is placed on the adhesive surface and pressed firmly into position with a slight twisting action. It is important to insure that the piece of tile is completely bedded in the mortar or adhesive with 100% coverage.
- When installing large tiles, spread adhesive onto back of tile in addition to trowelling material over surface to be tiled.
- It should not be attempted to add extra water to extend the pot life.
- Ensure the surface is shaded from sunlight
- Clean excess mortar on the surface with wet cloth or sponge when the mortar is still fresh.





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## Coverage Approx :

55 – 60 sft per 20kg bag with (6mmx6mm) Square notched trowel for a bed of 3 mm.

### Storage and shelf life :

- Shelf life in factory packed bags is one year from the date of manufacturing Store the material in cool and dry place away from moisture and humidity. Moisture and humidity may result in reduction of shelf life.

### Areas of Application

- Designed for exterior and interior wall and floors.

### Points of caution :

- Do not install tile/ stone on frozen substrates.
- Avoid foot traffic for 24 hours and heavy traffic for 7 days
- During cold weather or highly humid atmosphere protect tiled/stoned surface from use until fully cured.
- Wear a respiratory mask to avoid inhalation.
- Keep out of reach of children.

## Technical Information

Property	Result
Appearance	Grey Cementitious powder
Setting Time	24 hours

## Properties as per IS:15477:2019

Sr.	Test Parametres	Test Result	Requirement as per IS:15477:2019
1	Tensile Adhesion Strenght. N/mm2		
a)	Dry Condition	1.41	Min 1.0
b)	Wet Condition	1.22	Min 1.0
2	Shear Adhesive Strength. N/mm2		
a)	Dry Condition	1.62	Min 1.25
b)	Heat Anging Condition	1.34	Min 1.0
c)	Wet Condition	1.27	Min 1.0
3	Open Time Minutes	20	

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### AS PER EN 12004 - Classified as C2TE adhesive

Property	Specification	Result
Open Time : Tensile Adhesion Strength @ 20 minutes 28days as per EN 1346	$\geq 0.50 \text{ N/mm}^2$	0.75 - 0.90 N/mm <sup>2</sup>
Slip Resistance (T) as per EN 1308	$\leq 0.50 \text{ mm}$	0.30 - 0.35 mm
Initial Tensile adhesion strength as per EN 1348 (clause 8.2)	$\geq 1.00 \text{ N/mm}^2$	1.30 - 1.50 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion as per EN 1348 (clause 8.3)	$\geq 1.00 \text{ N/mm}^2$	1.20 - 1.30 N/mm <sup>2</sup>
Tensile adhesion strength after Heat ageing as per EN 1348 (clause 8.4)	$\geq 1.00 \text{ N/mm}^2$	1.10 - 1.25 N/mm <sup>2</sup>
Tensile adhesion strength after freeze-thaw cycle as per EN 1348 (clause 8.5)	$\geq 1.00 \text{ N/mm}^2$	1.25 - 1.50 N/mm <sup>2</sup>

### AS PER ANSI A118.2T

Property	Specification	Result
Porcelain mosaic tile shear strength - 7 days	$\geq 200 \text{ psi (1.38 Mpa)}$	250 - 275 psi (1.72 - 1.90 Mpa)
Porcelain mosaic tile shear strength - 7 days water immersion	$\geq 150 \text{ psi (1.03Mpa)}$	200 - 250 psi (1.38 - 1.72 Mpa)
Porcelain mosaic tile shear strength - 28 days	$\geq 200 \text{ psi (1.38Mpa)}$	250 - 300 psi (1.72 - 2.07 Mpa)

#### Precautions

- Keep out of reach of children
- Wear suitable protective cloths, respirator and glove
- In case of contact with skin/eyes, wash immediately with plenty of water & seek medical hel

**Note :** Specifications are subject to change without notification. The performance properties will depend on field conditions & installation methods

#### Disclaimer :

All technical data stated herein are based on laboratory tests and true to the best of our knowledge. Actual measured data may vary due to circumstances beyond our control and will depend upon the installation method and the prevailing conditions on the site and state of substrate / tile/ stone.

We cannot anticipate all conditions under which this information and our product in combination with our products may be used. We accept no responsibility for results obtained by the application of this information or the safety & stability of our products either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purpose. We sell this product without warranty and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of products whether used alone or in combination with their products

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