

# MARKSET 515 INFINITE

(HIGHLY DEFORMABLE, POLYMER FIBER MODIFIED WITH EXTENDED OPEN TIME ADHESIVE MORTAR FOR INSTALLING VITRIFIED AND STONE MATERIAL WITH HIGH YIELD AND EASY TO TROWEL



## DESCRIPTION

**MARKSET 515 INFINITE** is a ready mixed polymer modified fiber reinforced cement based powder made from cement, selected graded sand, a high amount of synthetic resin and micro-spheres of recycled silica material including nano technological additives for installing vitrified tiles and stone material with no vertical slip

## FEATURES / ADVANTAGES

- Highly flexible
- With its nano technological raw materials, it has high adhesion strength
- Highly deformable, resistant to temperature changes
- Can be applied on vertical surfaces even for bonding of heavy tiles without sagging
- Extended open time and easily trowellable
- For indoor and outdoor usage
- C2 TE S2 compliant with EN 12004 standard
- Application up to 16mm thickness

## FIELD OF APPLICATION

- Interior and exterior floor and wall bonding of all types and sizes of vitrified tiles, natural stone, marble, granite, porcelain ceramic, clinker, cotto on cementitious renders, cementitious screeds and concrete substrates
- Bonding of tiles and stones on existing ceramic tile, granites
- Bonding of tiles on painted walls and gypsum
- Bonding of tiles in swimming pools, basins and any other wet places
- Bonding of tiles and stones on terraces and balconies.
- Bonding of tiles and stones on places where sudden temperature changes occurs like cold storage depots, on walls of ovens and over floor heat installations
- Bonding of tiles and stones on places subject to heavy traffic like shopping malls, hospitals, schools.

## COMPLIANT / APPROVALS

- As Per IS 15477:2019 Type 4
- Compliant as per **C2 TE S2**

## DIRECTIONS FOR USE

**SUBSTRATE PREPARATION** : The substrates must be flat, mechanically resistant, free of loose parts, grease, oils, paints, wax, etc. Cement substrates should not be subject to shrinkage after the installation of the ceramic tiles, therefore, during spring and summer, renders must cure at least one week for each cm of thickness and cement screeds must have an overall cure time of at least 28 days. Dampen with water to cool surfaces which have become heated from exposure to sunlight. Gypsum substrates and anhydrite screeds must be perfectly dry (max. residual moisture 0.5%), sufficiently hard and free from dust.

Prime the non absorbent substrates, tiles, natural stone floors and firmly adhering coatings.

**MIXING** : Mix MARKSET 515 INFINITE with clean water until a smooth, lump-free paste is obtained. Leave to rest approximately 5 minutes and re-stir. If necessary, add small amounts of water until the desired consistency is reached. During hot periods and in general, it is recommended to avoid direct sunlight exposure of the materials (in powder or paste form) before use, otherwise the working time is reduced. In any case avoid mixing by hand.

**APPLICATION** : Mix MARKSET 515 INFINITE is applied depending on the size of the tile and stone with a notched trowel that will give the right thickness to ensure adequate coverage of the back of the tiles and stones. The tiles and stones are placed on the still fresh adhesive bed, by applying firm pressure, to ensure full contact between the tiles and the adhesive. After the pot life has expired and the mortar begun to set, do not attempt to re-temper the mortar by adding water and stirring again.

Application of large format tiles on existing tiles or which are subject to frost or heavy traffic, MARKSET 515 INFINITE should be applied on the back of the tiles (combined method). Tiles installed must not be subject to water for at least 24 hours.

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PHYSICAL PROPERTIES	
Consistency	Powder
Colour	White And Grey
Bulk Density (Kg/m <sup>3</sup> )	Grey : 1310 White : 1340
Mixing Ratio	4.7 - 5.0 litres water per 20 Kg Bag
Consistency of a mix	Pasty
Pot Life	Over 4 Hours
Open Time	45 Minutes
Application Temperature Range	From +5°C to +40°C
Max Thickness Achieved	Up to 16 mm
Set to light foot traffic	24 hours
Slip Resistance Or Vertical Slip (T) :	< 0.4 mm

TECHNICAL PROPERTIES	
<b>Shear Adhesion Strength</b>	<b>As Per IS 15477 : 2019 Type 4</b>
Initial Dry Condition (After 28 Days)	> 1.5 N/mm <sup>2</sup>
After heat ageing Condition	> 1.0 N/mm <sup>2</sup>
After Wet Condition	> 1.0 N/mm <sup>2</sup>

## CONSUMPTION

1.2 Kg /m<sup>2</sup>/mm of thickness square notched trowel.

**NOTE :** Coverages shown are approximate and are given for estimating purposes only. Actual job-site coverages may vary according to the tile size and thickness, job conditions and setting practices. For coverage values contact MARKCHEM Technical Services Department at ([info@markchemconstruction.com](mailto:info@markchemconstruction.com))

## PACKING

**MARKSET 515 INFINITE** white and grey are available in 20 Kg bags

## STORAGE

16 months in a normal environment in original packaging in a dry, elevated area.

## PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

TECHNICAL PROPERTIES		
Tensile Adhesion Strength	As Per EN 12004 Standards	As Per IS 15477 : 2019 Type 4
Initial Dry Condition (After 28 Days)	> 1.0 N/mm <sup>2</sup>	> 1.5 N/mm <sup>2</sup>
After water immersion	> 1.0 N/mm <sup>2</sup>	> 1.0 N/mm <sup>2</sup>
After heat ageing	> 1.0 N/mm <sup>2</sup>	-
After freeze/thaw cycles	> 1.0 N/mm <sup>2</sup>	-
Deformability (EN 12002)	≥ 5 mm - S2 Highly deformable	
Release Dangerous Substances (EN 12004)	Complies	
Reaction to Fire	B	



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## Certificates of Quality:

TS EN 12004 Class C2TE, S2

C: Cementitious

2: Improved

T: Reduced Slip

E: Extended open time

S2: Highly Deformable



## DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.



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