

MARKSET 410

(DEFORMABLE, CEMENT BASE HIGH PERFORMANCE ADHESIVE WITH NO VERTICAL SLIP AND EXTENDED OPEN TIME)



DESCRIPTION

MARKSET 410 is a ready mixed polymer modified fiber reinforced cement based deformable, one-pack adhesive consisting of high resistance cements, high polymer content, selected silicon / quartz mineral charges and specific additives. It can create deformable adhesive layers up to 15 mm thickness. It is suitable for installing large format vitrified and porcelain tiles, thin tiles and natural stones

FEATURES / ADVANTAGES

- Fiber reinforced for excellent strength and flexibility
- Excellent tensile and shear adhesion
- Capacity to accommodate different deformation on critical surfaces
- 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 S1 compliant with EN 12004 standard
- Application up to 15mm thickness

FIELD OF APPLICATION

- Interior and exterior floor and wall bonding of all types and sizes of vitrified tiles, natural stone, marble, granite, porcelain on cementitious renders, cementitious screeds and concrete substrates
- Bonding of tiles and stones on floors, wall, heated floors, dry wall boards, facades, terraces, balconies, swimming pools.
- Bonding of semi and fully vitrified tiles, stone, natural stone, thin tiles, glass mosaic tiles, large format tiles on deformable surfaces
- Indoor and outdoor / Horizontal and Vertical
- Suitable for applications where high performance is demanded, such as swimming pools, industrial and heavy trafficked floors, façades.

COMPLIANT / APPROVALS

- As Per IS 15477:2019 Type 4
- Compliant as per **C2 TE S1**

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 410 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 410 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 410 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 ³)	Grey : 1375 White : 1340
Mixing Ratio	4.6 - 4.9 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 15 mm
Set to light foot traffic	24 hours
Slip Resistance Or Vertical Slip (T) :	< 0.4 mm

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

CONSUMPTION

1.2 Kg /m²/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)

PACKING

MARKSET 410 INFINITE white and grey are available in 20 Kg bags

STORAGE

15 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 ²	> 1.5 N/mm ²
After water immersion	> 1.0 N/mm ²	> 1.0 N/mm ²
After heat ageing	> 1.0 N/mm ²	-
After freeze/thaw cycles	> 1.0 N/mm ²	-
Deformability (EN 12002)	2.5 mm to 5 mm - S1 Deformable	
Release Dangerous Substances (EN 12004)	Complies	
Reaction to Fire	B	



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Certificates of Quality:

TS EN 12004 Class C2TE, S1

C: Cementitious

2: Improved

T: Reduced Slip

E: Extended open time

S1: 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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