

FLEXISET H60

(HIGHLY POLYMER MODIFIED AND FIBER REINFORCED ADHESIVE FOR FIXING TILES AND NATURAL STONE ON INTERIOR AND EXTERIOR FLOOR & WALL)



DESCRIPTION

FLEXISET H60 is a ready mixed polymer modified and fiber reinforced cement based powder made from cement, selected graded sand, and polymers providing high performance and strength. FLEXISET H60 is specifically designed for thin and middle bed adhesive which is ideal for fixing vitrified tiles, industrial grade tiles, natural stones on wall and floor in interior and exterior situations upto 6mm bed thickness and can be extended up to 12 mm in area of limited extent.

FEATURES / ADVANTAGES

- Highly polymer modified with fiber reinforced
- Water resistant with very high bond strength
- Bonds to various substrates
- Easy mixing, smooth application & better workability
- Extended open time and easily trowellable
- For indoor and outdoor usage
- C2 TE compliant with EN 12004 standard
- Application up to 12mm thickness

FIELD OF APPLICATION

- Interior and exterior floor and wall bonding of all types of ceramic tiles, vitrified tiles, natural stone, glass mosaic tiles and precast terrazzo on cementitious renders, cementitious screeds and concrete substrates
- Suitable for small, medium and large tiles
- Bonding of tiles and stones on existing ceramic tile, vitrified tiles.
- Bonding of tiles in swimming pools, basins and any other wet places
- Bonding of tiles and stones on terraces and balconies.

COMPLIANT / APPROVALS

- As Per IS 15477:2019 Type 3
- Compliant as per C2 TE

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 FLEXISET H60 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 : FLEXISET H60 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.

Tiles installed must not be subject to water for at least 24 hours.

Expansion joints, joints at the corners of walls and floor and around sanitary equipment shall be filled with sealants or shall be treated with appropriate treatment.

For waterproofing, it is essential to waterproof wet areas with MARKCHEM waterproofing products prior to application

Ensure to keep tile joints (gap) is kept between subsequent tiles to accommodate thermal expansion and contraction.

FLEXISET H60

(HIGHLY POLYMER MODIFIED AND FIBER REINFORCED ADHESIVE FOR FIXING TILES AND NATURAL STONE ON INTERIOR AND EXTERIOR FLOOR & WALL)



PHYSICAL PROPERTIES	
Consistency	Powder
Colour	White And Grey
Bulk Density (Kg/m ³)	Grey : 1410 White : 1385
Mixing Ratio	4.2 - 4.7 litres water per 20 Kg Bag
Consistency of a mix	Pasty
Pot Life	Over 4 Hours
Open Time	30 Minutes
Application Temperature Range	From +5°C to +40°C
Max Thickness Achieved	Up to 12 mm
Set to light foot traffic	24 hours
Slip Resistance Or Vertical Slip (T) :	< 0.5 mm

TECHNICAL PROPERTIES		
Shear Adhesion Strength	Min Req. As Per 15477 : 2019 Type 3	Typical Result As Per IS 15477 : 2019 Type 3
Initial Dry Condition (After 28 Days)	1.5 N/mm ²	> 1.5 N/mm ²
After heat ageing Condition	1.0 N/mm ²	> 1.10 N/mm ²
After Wet Condition	1.0 N/mm ²	> 1.10 N/mm ²
Open time (as per Annex C)	-	30 minutes
Adjustment time (as per Annex D)	-	25 minutes
Slip (as per Annex E)	< 0.50 mm	0.35 mm

TECHNICAL PROPERTIES		
Tensile Adhesion Strength	As Per EN 12004 Standards	As Per IS 15477 : 2019 Type 3
Initial Dry Condition (After 28 Days)	> 1.0 N/mm ²	> 1.5 N/mm ²
After water immersion	> 1.0 N/mm ²	> 1.10 N/mm ²
After heat ageing	> 1.0 N/mm ²	-
After freeze/thaw cycles	> 1.0 N/mm ²	-
Slip (T) (Clause 8.2)	< 0.5 mm	
Release Dangerous Substances (EN 12004)	Complies	
Reaction to Fire	B	

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

FLEXISET H60 white and grey are available in 20 Kg bags

STORAGE

12 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.

FLEXISET H60

(HIGHLY POLYMER MODIFIED AND FIBER REINFORCED ADHESIVE FOR FIXING TILES AND NATURAL STONE ON INTERIOR AND EXTERIOR FLOOR & WALL)



Certificates of Quality:

TS EN 12004 Class C2 TE

C: Cementitious

2: Improved

T: Reduced Slip

E: Extended open time



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.



MARKCHEM SPECIALITIES PRIVATE LIMITED

Plot No 1047, 1047 A,
Vijay Nagar, GT Road NH 44
Karnal 132001
Haryana, India

Customer Care : +91 92157 03333

Email : info@markchemconstruction.com

Website : www.markchemconstruction.com

