

### MONNELI NEOFIL F60

*Thick Bed Floor Tile Adhesive*

#### Product Description

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A thick bed high polymer modified waterproof cementitious adhesive. It is an easily workable product with excellent adhesion strength.

NEOFIL F60 does not contain asbestos nor any other material harmful to health.

#### Uses

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NEOFIL F60 is used for interior and exterior floor tiling applications from 3 to 20 mm thickness. It is suitable for use on the following:

- Large size floor tiles laid on supports with high pedestrian traffic
- Institutional kitchens
- Bathrooms
- Laboratories
- Hospitals
- Tile on tile applications
- Ceramic, porcelain, vitrified tiles, granite floors
- Marble and natural stones
- Klinker tiles
- Single-fired tiles
- Gypsum after having first applied PRIMER A16
- It can be applied on deformed supports caused by static loads

#### Advantage

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- Easily workable
- Extended open time
- High elasticity

- Excellent bond and tensile strength. Adheres to all materials normally used in buildings
- Hardens without appreciable shrinkage
- Water resistant
- Eco-friendly
- Formulated to suit Middle East conditions

#### Instructions for Use

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##### Surface Preparation

All surfaces should be sound, clean & uncontaminated. This preparation should leave an exposed concrete surface free from dust, loose particles, deleterious matter, oil, grease, chemical films & other contaminants.

All loose particles of mortar, paint, etc. must be physically removed.

Concrete or blockwork: should be allowed to cure sufficiently so that all shrinkage movements take place before fixing tiles.

Gypsum supports: must be treated with PRIMER A16. Should not have a percentage of humidity more than 10%.

The surface of substrates must be moistened slightly with clean water to reduce the absorption of water from the mortar. Do not moisten the tiles.

##### Mixing

Add NEOFIL F60 which is supplied as 25 kg bag of NEOFIL F60 should be mixed with clean water (about 5 to 5.25 Liters per a bag of 25 kg.). Mix it carefully with a mechanic mixer at low number of turns (200 - 300 turns per minute) until obtaining a homogeneous mixture free from lumps, remix briefly before application.



## **Application**

Apply NEOFIL F60 with a toothed spatula, spreading the first pass with its smooth part and then a second pass with the toothed part.

Place the tiles onto the adhesive bed.

Apply sufficient pressure on the tile during fixing with slight twisting movement in order to ensure good contact with the mortar.

Apply enough material that can be tiled during the adhesive's open wet time. Spreading large areas may result in drying the adhesive before tiles can be fixed causing poor adhesion.

In case of large size tiles, it is necessary to spread the adhesive also to the backside of the tile..

## **Finishing**

Remove excess adhesive with a damp cloth before it dries. Joints grouting between tiles may be commenced 24 hours after tiles are laid on the floor.

## **Cleaning**

Tools and equipment should be cleaned with water immediately after use. Hardened materials should be mechanically removed.

## **Recommendations**

- Stiffened mortar must neither be diluted with water nor with fresh mortar
- Do not use NEOFIL F60 on metal, wood or non-absorbing surfaces
- Do not apply NEOFIL F60 in rainy weather, high winds and sand storms
- Do not apply under direct sun
- Keep equipment cool and use cold water
- Porosity of tiles and substrates has significant effect on adhesive strength of tiles

## **Technical Data**

Properties	Results
Appearance	Grey powder
Dry density	1.50 kg/L
Wet density	1.65 kg/L
Water resistance	Excellent
Flexibility	Excellent
Open time	Approx. 30 minutes
Workable time	45 minutes
Floor grouting	After 24-36 hours
Set to light trafficable	After 24-36 hours
Final hardening	14 days
Shear strength	1.7 N/mm <sup>2</sup>
Adhesion strength (EN 1348)	
Initial adhesion at 28 days	1.8 N/mm <sup>2</sup>
Adhesion after heat ageing	1.5 N/mm <sup>2</sup>
Adhesion after water immersion	1.2 N/mm <sup>2</sup>
Adhesion after freeze-thaw cycle	1.2 N/mm <sup>2</sup>

All values are subject to 5-10 % tolerance

## **Applicable Standards**

- EN 12004 – C2E
- ISO 13007- C2E
- ANSI A 118.4
- EN 1346, EN 1348



## Consumption

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Approx. 4.0 - 4.5 Kg NEOFIL F60 per m<sup>2</sup> using notched trowel on smooth surface. Consumption will vary according to type of tiles and support condition.

## Packaging

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NEOFIL F60 is packed in 25 Kg bags.

## Storage

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Store in dry covered place in the original closed bags and shelf life is 12 months if stored as recommended.

## Health & Safety

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NEOFIL F60 can be harmful to skin as it contains cement powders which may release alkalis when mixed with water.

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary.

In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately. Do not induce vomiting.

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