

### MONNELI NEOFIL F50 FLEX

*High Performance Cementitious Tile Adhesive with No Vertical Slip and Extended Open Time*

#### Product Description

A polymer enriched water resistant, flexible, cementitious tile adhesive. It is an easily workable product with high adhesion power and excellent elasticity. Its thixotropic characteristics permit to apply on vertical substrates without slipping.

It does not contain asbestos nor any other harmful components.

#### Uses

NEOFIL F50 FLEX is used for internal and external tile laying both on wall and floor applications. It is suitable for use on the following:

- Institutional kitchen
- Bathrooms
- Swimming pools
- 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

#### Advantages

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

#### Instructions for Use

##### 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 contaminant. 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 moistened the tiles.

##### Mixing

Place 5.0 – 5.25 liters of cold, potable water in the mixing bucket and add slowly 25 kg bag of NEOFIL F50 FLEX under continuous mixing till a uniform lump free consistency mix is achieved. For mixing process, a slow speed drill (200- 300rpm) fitted with a suitable paddle is recommended.

## Application

Spread NEOFIL F50 FLEX on the substrate to a uniform thickness using a toothed spatula, the first pass with its straight edge and the second pass immediately after to the desired thickness using the toothed part.

Place the tiles onto the adhesive bed. Apply sufficient pressure on the tile during fixing it with slight twisting movement in order to ensure good contact with the adhesive.

In case of large size tiles, it is necessary to spread the adhesive also to the backside of the tile and then place the tile into the adhesive bed.

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.

## Finishing

Remove excess adhesive with a damp cloth before it dries. Joints grouting between tiles may be commenced after 10 hours of tiling for walls and 24 hours for floors.

## Cleaning

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

## Recommendations

- To achieve improve adhesion strength, it is recommended to replace water with ELASTOKOL
- The grey type presents higher mechanical resistances. It is therefore advisable to use to fix tiles on floor
- Stiffened mortar must neither be diluted with water nor with fresh mortar
- Do not use NEOFIL F50 FLEX on metal, wood or non-absorbing surfaces
- Do not apply NEOFIL F50 FLEX 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	Powder
Color	Grey or white
Dry density	1.50 kg/L
Wet density	1.70 kg/L
VOC	4.0 g/L
Water resistance	Excellent
Slip resistance	Excellent
Flexibility	Excellent
Open time	30 minutes
Workable time	45 minutes
Wall grouting	After 10 hours
Floor grouting	After 24 hours
Shear strength	2.0 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	1.7 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

- European EN 12004 C2TE
- European EN 12002 S1 (if mixed with ELASTOKOL)
- ANSI A 118.4
- ISO 13007 – C2TE or C2TES1 (if mixed with ELASTOKOL)

## Consumption

Approx. 2.5 to 4.5 Kg. NEOFIL F50 FLEX per m<sup>2</sup> using notched trowel on smooth surface. Consumption will vary according to type of tiles and support condition.

## Packaging

NEOFIL F50 FLEX is packed in 25 Kg bags.

## Storage

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

## Health & Safety

NEOFIL F50 FLEX 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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