

### MONNELI ADERCOL

*Two Component Fast -Setting Cementitious Tile Adhesive*

#### Product Description

A two component latex modified adhesive with excellent features of adhesion and workability. It is a fast-setting and hydrating tile adhesive which allows the surface to be in service after 24 hours and for pedestrian traffic within 3-5 hours from time of fixing the tiles.

It is water resistant and does not contain asbestos nor other harmful components.

#### Uses

ADERCOL is used for bonding internal and external applications such as:

- Ceramic, porcelain and mosaics tiles
- Clinkers
- Single-fired tiles for both on wall and floor
- Marble, granite, cortile, travertine and natural stones
- Reconstructed stones, on which it is indispensable to use a rapidly hydrating adhesive to avoid the presence of superficial spotting or efflorescence
- Rapid retiling jobs

#### Advantages

- Fast – Setting
- Resistant to vibration, impact, temperature changes and aging
- Easily workable
- Water resistant
- Eco-friendly
- Good open time
- Formulated to suit Middle East condition

#### 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 block work: 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

To prepare the product mix 5 kg of resin (component B) with 25 kg of powder (component A), mix until a uniform, lump free consistency mix is achieved. For mixing process, a slow speed drill (200 – 300 rpm) fitted with a suitable paddle is recommended.

At a temperature of +20°C, the mixture will be workable for about 45 minutes. Higher temperatures will reduce the workability.

##### Application

Spread ADERCOL 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 of the spatula.

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 tiles into the adhesive bed.

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

### **Finishing**

Remove excess adhesive with damp cloth before the material has set. Joint grouting between tiles may be commenced after hours.

### **Cleaning**

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

### **Recommendations**

- Do not use on walls or floors subjected to intense movement (chipboard, asbestos cement board or wood agglomerates etc.)
- Do not use ADERCOL for fixing green marble or similar colours
- Stiffened mortar must not be diluted with water, component B or with fresh mortar
- Do not use ADERCOL on metal, wood or non-absorbing surfaces
- Do not apply ADERCOL in rainy weather, high winds and sand storms.
- Do not apply under direct sun
- Keep equipment cool and use cold water

## **Technical Data**

Properties	Results
<b>Component A</b>	
Appearance	Grey or white powder
Dry density	1.50 kg/L
<b>Component B</b>	
Apperance	White liquid
Dry density	1.03 kg/L
<b>Characteristics of Mixture</b>	
Appearance	Thixotropic paste
Density	1.6 kg/L
Grouting	After 3 hours
Light foot traffic	3 – 4 hours
Ready to use	After 24 hours (3 days if immersed in water)
Water resistance	Excellent
Ageing resistance	Excellent
Workable time	45 minutes
Service temperature	From -5°C to +80°C
Adhesion strength (EN 1348)	
Adhesion at 28 days	1.7 N/mm <sup>2</sup>
Adhesion after water immersion	1.1 N/mm <sup>2</sup>
Adhesion after freeze -thaw cycle	1.0 N/mm <sup>2</sup>
VOC	< 65 g/L

All values are subject to 5-10 % tolerance

## Applicable Standards

- EN 12004 – C2FT
- ANSI A 118.4

## Consumption

Approximately 4 to 4.5 Kg of ADERCOL per m<sup>2</sup> using notched trowel on smooth surface. Consumption will vary according to type of tiles and support condition.

## Packaging

ADERCOL is supplied in 30 Kg kit:

- Component A - 25 kg bag
- Component B – 5 liter can

## Storage

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

## Health & Safety

ADERCOL can be harmful to skin. 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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