

## FM 051



### DESCRIPTION

Cement-based and flexible adhesive, for the adhesion of ceramic, gres, porcelain, tiles, etc.

### CLASSIFICATION OF PRODUCT

FM 051 is classified as C2TE S1 according to EN 12004, C cement base, 2 improved adhesion strength, T resistance to slip, and E prolonged working time and S1 as flexible adhesive.

### PRODUCT PROPERTIES

- For indoor and outdoor use
- For moist areas
- Good workability
- For fixing ceramic, gres, porcelain tiles in hard surfaces.
- For fixing ceramic, gres and porcelain tiles in gypsum surface, after being treated with FM PRIMER.
- For fixing ceramic, gres and porcelain tiles on old existing tiles.
- For fixing ceramic, gres and porcelain tiles on under-floor heating

### RECOMMENDATIONS FOR USE

FM 051 is used for laying ceramic, gres and porcelain tiles, and tiles of different dimensions on various surfaces such as: concrete, isolating coatings, cement, plaster, old tiles, etc. This product is suitable for indoor and outdoor use. FM 051 can also be applied in deformable surfaces, such as: gypsum or wood tiles, under-floor heating, when it is reinforced with LATEX additive; this additive improves technical adhesive parameters.

### TECHNICAL DATA

|                                   |                            |
|-----------------------------------|----------------------------|
| Form:                             | Powder                     |
| Colour:                           | Grey and White             |
| Water demand:                     | 7.5 l/25 kg bag            |
| Application temperature:          | from +5°C up to +35°C      |
| Application thickness:            | up to 20 mm                |
| Pot life:                         | min 4 hours                |
| Open time:                        | 45 min                     |
| Slip:                             | 0,1 mm                     |
| Grouting on wall:                 | After 8 hours              |
| Grouting on floor:                | After 24 hours             |
| Adhesion strength after 28 days:  |                            |
| • Normal condition                | $\geq 1,53 \text{ N/mm}^2$ |
| • After heating reaction in 70°C: | $\geq 1,42 \text{ N/mm}^2$ |
| • After water immersion:          | $\geq 1,55 \text{ N/mm}^2$ |
| • After freeze-thaw cycles:       | $\geq 1,34 \text{ N/mm}^2$ |
| Temperature resistance:           | from -30°C up to +90°C     |
| Deformability according EN 12002: | 3,9 mm                     |
| Dilution degree                   | 10 – 20%                   |

## SURFACE PREPARATION

Cement-based traditional supports should have a sufficient maturity time of (28 days in 23°C temperature and U.R 40%). Supports should be flat and stable, in function of intended use. The support where the product will be applied should be clean and free of external materials, such as: paints, oils, varnishes, anti-adhesion materials. Cleaning is made mechanically or manually. Before the application of the product, the plasters should have a maturity time of at least 1week for 1 cm of thickness. The supports should be mechanically stable, in function of intended use. The surface of the support where the product will be applied should be free of any type of external material.

## APPLICATION OF PRODUCT

For a better application of the product, and for a good and uniform spreading of it in the entire surface, it is recommended that you firstly lay the product on the support through the straight blade of the trowel, and then through its notched part. The product should be applied with a suitable trowel, depending on the type and dimensions of the tile. It is recommended that after laying the tile, you put pressure on it so that the back part of the tile gets completely saturated. Special conditions, such as: high temperatures or strong winds, sun or substrates with a high absorption of water, affect negatively the performance of the product and can even decrease significantly the spreading and correction time. To avoid these problems, it is recommended to sprinkle the support with water before the application of the adhesive, or to treat it with the liner FM PRIMER. However, in any case, before laying the tiles, it is important that you check if the adhesive has created a "skin". In such cases, you should re-spread the adhesive in order to re-activate its adhesive strength. You should avoid pouring water on the adhesive which has created a "skin" (is solidified) because in such a case, an anti-adhesive layer is created. In cases of coatings and floorings in outdoor environments, especially in cases when the back part of the tile has relief, it is recommended that you spread the adhesive in the back part of the tile and also on the support, so as to avoid the creation of cavities where water can penetrate, or moisture can be created, which can cause tiles detachment or breaking.

## PACKAGING

FM 051 is supplied in paper bags of 25 kg.

## STORAGE

12 months, if preserved in normal environment and in its original packaging, protected by direct exposure to sun and frost.

## CONSUMPTION

4- 5 kg/m<sup>2</sup>

## HEALTH AND SAFETY INFORMATION

Keep out of reach of children. In case of contact with the eyes or swallowing, please seek medical advice immediately and show the contents of the container. Do not dispose the product into drains.

