

FM 047



DESCRIPTION

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

CLASSIFICATION OF PRODUCT

FM 047 is classified as C2T according to EN 12004, C – cement base, Nr. 2 – improved adhesion strength, T - resistance to slip.

PRODUCT PROPERTIES

- For indoor and outdoor use.
- For moist environments
- Good workability
- For ceramic, gres, porcelain tiles fixing.
- For ceramic, gres and porcelain tiles fixing in gypsum surface after being treated with FM PRIMER.

RECOMMENDATIONS FOR USE

FM 047 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 environments. FM 047 can also be applied in deformable surfaces, such as: gypsum or wood tiles, under-floor heating when it is reinforced with LATEX additive, which improves technical adhesive parameters.

TECHNICAL DATA

Form:	Powder
Colour:	Grey, White and Cream
Water demand:	7 l/25 Kg bag
Application temperature:	from +5°C up to +35°C
Application thickness:	up to 15 mm
Pot life:	min 3 hours
Open time:	min 35 minutes
Slip:	0,2 mm
Grouting on wall:	After 8 hours
Grouting on floor:	After 24 hours
Adhesion strength after 28 days:	
• Normal condition	$\geq 1,23 \text{ N/mm}^2$
• After heating reaction in 70°C:	$\geq 1,12 \text{ N/mm}^2$
• After water immersion:	$\geq 1,05 \text{ N/mm}^2$
• After freeze-thaw cycles:	$\geq 1,04 \text{ N/mm}^2$
Temperature resistance:	from -15°C up to +70°C

SURFACE PREPARATION

Cement-based traditional supports should have a sufficient maturity time (28 days in temperature 23°C and U.R 40%). Supports should be flat, stable and 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. The surface can be cleaned mechanically or manually. Before applying the product, mature the surface for at least one week for it to reach 1 cm thickness. The supports should be mechanically stable, in function of intended use.

APPLICATION OF PRODUCT

For a better application of the product, and for a good and uniform spread, it is recommended that you first 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" (if solidified) because in such as case, an anti-adhesive layer is created. When applying the product in outdoor environments, it is recommended that you spread the product in the back part of the tile and also on the support, to avoid the creation of empty spaces where water can penetrate, which can cause the tiles to detach or break.

PACKAGING

Packaging: 25 Kg paper bags

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/m²

HEALTH AND SAFETY INFORMATION

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

