



# MFC Level 330 FLEX

Highly flexible self-leveling coating  
(fast hardening)

## PRODUCT DESCRIPTION

MFC Level 330 FLEX is a two component highly flexible system on the basis of cement, filler and special additives. It is delivered as an already prepared dry mixture which is mixed on site with liquid dispersions (component B).

## USE

MFC Level 330 FLEX is used for renovation and repair of wearied and cracked concrete surfaces asphalt and wood substrates. Thanks to its excellent adhesion can be used for levelling and aligning a wide range of industrial and base layers, creating a surface highly resistant to wear. It is apply a layer thickness of 1–4 mm during one operation. Consumption dry mixture is 1.6 kg/mm/m<sup>2</sup>. Although MFC Level 330 FLEX does not contain casein or other protein-containing additives, its properties are similar to those of casein, which makes it particularly suitable for use in hospitals and places for the preparation or storage of food

## TECHNICAL PARAMETERS

Thickness of the layer	1–4 mm
Time for processing (depending on implementation conditions)	15–25 min.
Ready to walk on	1–4 hours
Light loading	after approximately 24 hours
Placement of floor covering (depending on moisture of the base)	after approximately 24 hours
pH value	approximately 11
Flow-Ring test	155–165 mm
Compressive strength after 28 days	min. 30 MPa
Flexural strength after 28 days	min. 10 MPa
Bond strength after 28 days	min. 2 MPa
Specific shrinkage	max. 0,04–0,06 %
Maximum diameter of filler grains	<1,0 mm

- parameters of material in environment with 23°C and 50 % relative air of moisture
- compressive and flexural strength during bending after 7 days achieves min. 60 % of 28 days value

## BASE

The base must be stabilized, clean and free of loose particles and grease followed by vacuum of dust. Asphalt and concrete surfaces must be grinded by diamond grinder or abrasive blasted and vacuumed properly. The substrate contaminated with oil or grease is needed burn off or treat with a suitable degreaser.

## PENETRATION

Apply penetration MFC Primer 620 on cleaned surface by a soft brush or sprayer. Apply once or twice according to the absorbency of the substrate on. In case of asphalt or wood surfaces should be concentrated primer coated on prepared surface by using of a fine brush to prevent the formation of puddles. Then leave the penetration dry until the surface does not become dry to the touch (3–4 hours under normal conditions). When applying the primer on porous substrates such as concrete, primer is applied in two layers in the ratio with water 1 : 5 for the first coating and 1 : 3 for the second coating. Primer should be applied to the surface at temperatures below + 10 °C, the substrate should be dry on the surface and ambient humidity should be less than 70 %, to allow for efficient drying paint. Inadequate drying time or poor formation of the layer due to the low temperature or high humidity may result in the formation of small holes on the final surface of the self-levelling coating.

## MIXING

The dry mixture is mixed shortly before application with component B. The dry mixture is gradually poured into the liquid components and mixed for at least 4 minutes. Subsequently, the mixed material is leaved to stand for 4–5 min. and just before applying again shortly mixed. Wetting is necessary during application to control the Flow-Ring test (see the Application Manual). Mixing is done in a mixing vessel with mixing adapter on the drill (300–400 rev./min).

## APPLICATION

The prepared mixture is processed manually using a mason's trowel or steel spatula. The mixture should be processed within 15–20 minutes. Apply evenly pouring in strips (20–30 cm) depending on the method of installation and the layer thickness. It is important to ensure that the new material is applied as soon as possible to already applied material to ensure convergence (within 5 min.). Freshly applied material smooths tooth trowel and roller to remove air bubbles and joints in the applied area. The substrate temperature must be between +10 and +25 °C. The air temperature should be min. +10 °C and up to +25 °C. The floor must be for min. 48 hours after application protected from the frost. Relative humidity of the ambient air should be less than 70 %. If the ambient temperature exceeds +25 °C, apply in thin layers, 1 mm /layer.

## TREATMENT

During application and the initial phase of hardening is necessary to prevent strong draft, extreme temperatures and direct sunlight. The surface should be protected from the frost and mechanical damage 48 hours after application.

## SURFACE

MFC Level 330 FLEX is comparable with properties of compacted concrete. As the substrate is MFC Level 330 FLEX is compatible with commonly used adhesives and floor coverings. Thanks to the application techniques may show colour variations (e.g. traces trowel).

## QUALITY

MFC Level 330 FLEX is permanently checked during production using laboratory tests. The basic precondition of successful application is to follow the required technological procedures (see the Application Manual).

## STORAGE

The material is packed in 25 kg paper bags and stored on wooden pallets (40 bags). Component B is packaged in plastic canisters volume of 10 L. The material should be stored in a dry place and not be exposed to moisture, freeze or high temperatures.

## WARRANTY

The warranty period is 6 months from the date of production. The date of production is stamped on the package. The producer guarantees the properties and performance of the product in compliance with the required technological procedures and does not provide any guarantee pursuant to improper processing and use.

## ATTENTION

The product contains cement. Cement reacts with water in an alkaline manner. Protect your eyes and avoid contact with skin. During handling the dry mixture there is risk of inhalation of dust particles, we recommend using a protective respirator. In case of contact with eyes, rinse your eyes with water and seek medical advice. Keep away from children.

