weberfloor anti-crack

High adhesion crack suppression membrane

PRODUCT

weberfloor anti-crack is a highly deformable, fast setting membrane, carefully produced based on an environmentally friendly polymer modified binder, to bring out a unique crack bridging layer that has optimal strength and flexibility to withstand structural movement and concrete shrinkage cracks up, without transferring the stress load to the final overlay.

SCOPE OF USE

weberfloor anti-crack flooring mortar is a highly flowable, ready mix fast hardening compound creating a seamless underlay suitable for:

- Dimensionally unstable substrates
- Internal and external applications
- For old and new screed
- Concrete slabs and tiles

**Standard precautions to be taken for hot weather application (Please refer to our technical department for advice)*

ADVANTAGES

- Crack bridging
- High deformability
- High adhesio
- High flow-ability
- Water vapor permeable
- Fast hardening
- Fast setting

CHARACTERISTICS	
Bulk density	~1 kg/liter
Fresh mortar density	~1.9 kg/liter
Crack bridging ASTM C 1305	Passed 0.9 mm crack in substrate joint during initial cycle.
Flexural strength – EN 13813, EN 13892-	7 days > 4.5 Mpa, 28 days > 7 Mpa
Compressive strength - EN 13813, EN 13892-2	24 hr > 5 Mpa, 7 days > 8 Mpa, 28 days > 11 Mpa
Adhesion strength (Concrete substrate)	> 2.5 Mpa @ 28 days
Processing temperature	24°C
Tensile strength DIN 53504	1.2 Mpa
Walkable	After 3 hours (when cured @ 20°C)
Application thickness	Approx. 1 mm
Mixing ratio	3.8 to 3.9 Lit water per 20 kg powder
Pot life	45 min (at 20°C) 30 min (at 40°C)
Consumption	Approx. 2 kg / m² at 1 mm layer thickness

PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
-	-	-	20 kg	20 kg	20 kg	20 kg	20 kg

APPLICABLE STANDARDS

EN 13813:2003, EN 13892-2, DIN 53504, ASTM C 1305.

INSTRUCTIONS FOR USE

SUBSTRATE PREPARATION

Concrete substrate should be at least 28 days old and has sufficient surface tensile strength (at least 1 N/mm² for light and medium traffic floor, 1.5 N/mm² for industrial floor).The surface must also be structurally stable and crack-free. Thus, any crack must be repaired prior to **weberfloor anti-crack** application. All surfaces should be cleaned, dry, and free from grease, laitance, oil, dust, paint or any other substance that may prevent or reduce adhesion.

Remove all weak, loose, smooth, or broken pieces of concrete until it reaches a sound rough concrete. Depending on substrate conditions, deeper ruptures and cracks must be filled with **weberfloor epopatch (up to 3 mm)** and **weberfloor epolevel (3 to 10 mm)**, freshly scattered with sand, to increase the bonding and create a strong mechanical key. **For more details, please refer to the above-mentioned products data sheets.*

If the substrate is tiled, it is important to ensure that all tiles are free of cracks. Any loose tiles should be removed and well replaced,before applying **weberfloor anti-crack**.

The edge joint must be prepared with a suitable expansion strip. Thereby attention must be paid to avoid material flowing below or behind the expansion strip, moreover, expansion joints must be always copied.

weber
SAINT-GOBAIN

Thereafter, the substrate must be vacuumed and primed with **weber euroflor Prime**, using a soft brush or a roller. Priming the surface will adjust substrate absorbency and avoid the rising of air bubbles during the subsequent layers. For dry and porous substrate, apply **weber euroflor Prime** in 2 coats, with water dilution at the ratio of (1 : 1). Allow the first primer coat to dry to a clear film before applying the second layer following the same dilution ratio. A third coat might be required, depending on the substrate porosity. Apply **weber euroflor design** as soon the color of the primed surface change from white to clear.

PRODUCT PREPARATION

At high ambient temperature, it is always recommended to use cold water or ice if necessary to keep the mix temperature below 30°C.

For outdoor application, the following precautions should be restrictedly taken into consideration:

- It is recommended to work during evening time.
- The application area should be shaded.
- After surface preparation, the application area should be protected from any kind of dust and heavy wind (during application and for the first 24 hours).
- The temperature of the freshly mixed material should be in the range of 20 °C to 30 °C. (use cold water or ice if necessary).

Mix 1 bag of 20 kg powder with 3.8 to 3.9 liters of clean cool water using a collomix machine. (It is recommended to use the Collomix mixing paddle, DLX 152 HF). The mixing machine should be cleaned prior to the mixture process. By using the respective mixing paddle, a proper thread adapter has to be used if necessary. The material must be mixed intensely for 2 minutes at less than 500 rpm, left to set for around one minute, then mixed again for one more minute.

PRODUCT APPLICATION

The mixed material must be poured out seamlessly within the mentioned workability time and spread and scratched over the well-prepared substrate.
The application thickness of the first layer should be thin (approx. 1 kg per m^2).The thickness of the first layer will be highly depending on the substrate condition.
Whilst the first layer of **weberfloor anti-crack** is still wet, immediately lay over the previously prepared **Fiber glass F20** mesh pieces.

Prior to the product application, make sure to overlap the mesh pieces for at least 5 cm to increase the reinforcement.

Using a trowel, press down and submerge the fiber mesh sheets within the wet applied layer and make sure that the mesh is fully submerged within the wet layer.

Pour the second layer of **weberfloor anti-crack** over the fully submerged mesh, thereafter, use a trowel to spread and to level the poured material and to create a final layer at a thickness of approx. 1 mm, then leave the material to settle.

**The second layer could be applicable starting from 2 hours up to 24 hours after applying the first layer,depending on site conditions.*

PRIMING

After 24 hours, **weberfloor anti-crack** layer should be dry and ready to accept the primer and other subsequent compounds. However, and before starting the primer application, make sure that all the mesh sheets are well bonded to the substrate. Thereafter, and before applying the primer, the substrate must be cleaned again, preferably using a vacuum machine.

Apply **weber euroflor Prime** as a primer coat using a soft brush or a roller. Priming the surface will adjust the substrate absorbency, avoid the rising of air bubbles and increase the adhesion of the subsequent layer.

Apply **weber euroflor Prime** in 2 coats, with water dilution at the ratio (1 : 1). Allow the first primer coat to dry to a clear film then apply the second layer following the same dilution ratio. Depending on the substrate porosity, a third coat might be required.
As soon the color of the primed surface change from white to clear, apply **weber euroflor Design**.

CONSUMPTION

2 kg per m^2 per 2 layers at 1 mm DFT.

TOOLS AND CLEANING

Hand-held mixer or mixing device, stirrer, trowel, scraper, soft brush or roller.
All equipment should be washed with clean water and dried before and after application.

PACKAGING AND SHELF-LIFE

20 kg paper bag.
Original packing is storable for 12 months in dry and controlled temperate areas (10 – 35 °C).

SAFETY PRECAUTIONS

Non-Hazardous material but avoid prolonged breathing of dust. When in contact with eyes, can cause irritation. Immediately flush eyes with plenty of water for at least 15 minutes. Please check the MSDS for further details.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

Thereafter, the substrate must be vacuumed and primed with **weber euroflor Prime**, using a soft brush or a roller. Priming the surface will adjust substrate absorbency and avoid the rising of air bubbles during the subsequent layers. For dry and porous substrate, apply **weber euroflor Prime** in 2 coats, with water dilution at the ratio of (1 : 1). Allow the first primer coat to dry to a clear film before applying the second layer following the same dilution ratio. A third coat might be required, depending on the substrate porosity. Apply **weber euroflor design** as soon the color of the primed surface change from white to clear.