

# F2 - LASTIC



**Two-component flexible polymer-cement based waterproofing coating**

## DESCRIPTION AND FIELD OF APPLICATION

HydroBlocker F2-LASTIC is a two-component flexible coating based on a cementitious binder, selected fine-grained sands, special additives and polymeric water dispersion. The special additives make it flexible even at low temperatures, down to -5 °C.

It is suitable for waterproofing balconies, terraces, swimming pools, bathrooms, ...just beneath ceramic tiles, mosaics or stone cladding, appropriate for both indoor and outdoor use.



## ADVANTAGES OF USE

### In fresh state

- It is easy to prepare because the two components are already packaged in the correct proportions: just blend the dry component A into the liquid component B at the application site.
- Easy to apply: brush or roller.

### In hardened state

- Maintains watertightness
- Retains flexibility / elasticity even at low temperatures [-5°C]
- Bridges cracks up to 1 mm
- Resistant to exposure to frost and salts
- For internal and external use

In accordance with the requirements of EN 14891, HydroBlocker F2-LASTIC is classified as class **CM 01P**, where CM represents = cementitious liquid-applied water impermeable product, 01 = with improved crack bridging ability at -5 °C, and P = resistant to contact with chlorinated water.

## TECHNICAL CHARACTERISTICS

Characteristic	Component A	Component B
Colour and appearance	grey powder	white liquid
Bulk density [g/L]	1452	-

DATA FOR FRESH MIXTURE (20 °C, 55% RH)			
Characteristic		Declared value	
Colour		Grey	
Mixing ratio		Component A (powder) : Component B (liquid) = 3 : 1	
Specific gravity of the mixture [kg/m³]		1700	
Optimal application temperature [°C]		from 10 to 25	
Workability time [min]		approx. 45 [20 °C]	
Application thickness [mm]		Single layer: max. 2 mm Total thickness: min. 2 mm and max. 5 mm	
DATA FOR CURED COATING (thickness 2mm)			
Characteristic	Method of testing	Standard requirements EN 1504-2	Achieved value
Adhesion strength to concrete (pull-off) - 28 days at 20 °C and 50% RH [N/mm²]	EN 1542	> 0.8	1.5
Adhesion strength to concrete (pull-off) - 7 days at 20 °C and 50% RH + 21 days in water [N/mm²]	EN 1542	No requirement	1.6
Characteristic	Method of testing	Standard requirements EN 14891	Achieved value
Waterproofing – pemeability to water under pressure [1.5 bar, 7 days]	EN 14891 – A.7	No penetration	No penetration
Crack bridging ability under standard conditions +23 °C [mm]	EN 14891 – A.8.2	≥ 0,75	1.2
Crack bridging ability at low temperature -5 °C [mm]	EN 14891 – A.8.3	≥ 0,75	0.9
Initial tensile adhesion strength [N/mm²]	EN 14891 – A.6.2	≥ 0.5	1,0
Tensile adhesion strength after water contact [N/mm²]	EN 14891 – A.6.3	≥ 0,5	0,8
Tensile adhesion strength after heat aging [N/mm²]	EN 14891 – A.6.5	≥ 0.5	1.4
Tensile adhesion strength after freeze-thaw cycles [N/mm²]	EN 14891 – A.6.6	≥ 0.5	0.5
Tensile adhesion strength after contact with lime water [N/mm²]	EN 14891 – A.6.9	≥ 0.5	0.7

Tensile adhesion strength after contact with chlorinated water [N/mm <sup>2</sup> ]	EN 14891 – A.6.7	≥ 0.5	0,6
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## COMPLIANCE

HydroBlocker F2-LASTIC complies with the requirements of the EN 14891 standard: Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives – class CM 01P.

## INSTRUCTIONS FOR USE

### Preparation of the substrate

The coating surface must be clean – free of dust, grease stains, mould and other contaminants, as well as poorly bonded parts. If the substrate is heavily contaminated, very smooth or has cement milk precipitated on it, mechanical pre-cleaning is necessary, e.g. sandblasting, pressure washing, grinding or wire brushing.

Before applying HydroBlocker F2-LASTIC, major damages should be repaired with a suitable repair mortar, e.g. HydroBlocker Protex 110.

The surface to which HydroBlocker F2-LASTIC is applied must be thoroughly soaked with water but free from any standing water. For highly absorbent substrates (e.g. Siporex), the surface should be pre-impregnated with Cementol Concrete Contact polymer dispersion diluted with water in a ratio of 1 : 3 [1 part Cementol Concrete Contact + 3 parts water] up to 1 hour before application of HydroBlocker F2-LASTIC.

The concrete or screed must be at least 28 days old before the application of HydroBlocker F2-LASTIC.

### Cement coating preparation

Mixing ratio = 1 : 3 [1 weight part of liquid + 3 weight part of powder].

Pour component B [liquid] into a suitable clean container, then slowly add the prescribed amount of component A [powder] while stirring. Stir with a low-speed stirrer to incorporate as little air as possible while allowing enough time to achieve a homogeneous, lump-free mass. Allow it to rest for approx. 5 min then remix and apply in approx. 45 min. The time of application depends on the temperature at which you are working.

### Cement coating application [installation]

HydroBlocker F2-LASTIC is applied with a brush or a roller. It is important to make sure that no air bubbles form between the substrate and the fresh coating. It is applied in at least two layers of mutually perpendicular layers. Each coat is applied at a thickness of approx. 1 mm. The second/third coat is applied after the previous coat has hardened, i.e. after about 12 – 24 hours. The total thickness of the coating [all layers] should not exceed 5 mm. The surface between the individual layers should not be moistened.

The optimum application temperature for HydroBlocker F2-LASTIC is 10 – 25 °C.

When sealing terraces, balconies or swimming pools and/or large areas, it is recommended to embed an alkaline-resistant mesh in the first coat of the coating. This must also be used when applying HydroBlocker F2-LASTIC to cracked surfaces.

### Execution of details

We recommend using elastic sealing tapes and angles from the HydroBlocker Tekatrak family to seal the joints between horizontal and vertical surfaces.

The Hydroblocker Tekatrak 120 sealing tape and the Hydroblocker Tekatrak KN or Hydroblocker Tekatrak KZ angles are placed on the overlap [at least 5 cm] and glued together with TTK SEAL Flexible Joints Wall adhesive.

As an alternative we can use Hydroblocker Tekatrak SL 100 self-adhesive sealing tapes.

### Curing of freshly installed cementitious coating

It is important to protect the fresh coating from drying out too quickly - from strong sun, wind and draughts, as well as from rain and freezing.

### Cleaning of tools and work accessories

All tools and work accessories must be thoroughly washed with water after completion of work. The cured coating can only be removed mechanically.

## **ADDITIONAL RECOMMENDATIONS AND WARNINGS**

- Always use bags and canisters that have been originally packaged, sealed, undamaged, and properly stored.
- Do not apply the coating at temperatures lower than + 5 °C or higher than + 35 °C!
- Temperature influences workability, setting, and hardening times. For optimum coating characteristics, we recommend a substrate temperature of 15–25 °C before, during and 48 h after application.
- Low temperatures [below + 10 °C] cause the setting and curing time to be extended; so it is recommended to store the coating in heated areas and to carry out the work during the warmest part of the day.
- At high temperatures [above + 30 °C], the setting time is shorter, so we recommend storing the coating in a cool room and carrying out the work during the coolest part of the day.
- The thickness of each layer of HydroBlocker F2-LASTIC shall not exceed 2 mm.
- The freshly installed coating must be protected against precipitation and accidental water ingress for at least 24 hours.
- Never apply the coating to a smooth, unclean surface!
- Never add water or a powder component to a mixture that has already thickened significantly. Such a coating is discarded!
- Due to its flexibility, HydroBlocker F2-LASTIC is **NOT** walkable and must be protected by finishes [ceramic tiles, artificial stone, porfido, etc.].
- Finishes [e.g. tiles, mosaics, stone cladding] should be installed after 5 days at the earliest. For installation, an improved adhesive of class C2 in accordance with EN 12004 should be used.
- When sealing water tanks, the coating must cure in the air for at least 28 days before the tank is filled with water.
- Do not use HydroBlocker F2-LASTIC as a finishing layer in swimming pools.

- It is suitable for the protection of cracked concrete, providing the cracks are not active.
- Although HydroBlocker F2-LASTIC is flexible, it is not suitable for sealing expansion/construction joints. In these cases, a permanent elastic sealant from the TKK SEAL Flexible product range should be used while adhering to the correct dimensioning guidelines [see the relevant technical data sheet or [https://tkk-group.com/en/publications/tips\\_and\\_tricks](https://tkk-group.com/en/publications/tips_and_tricks)].
- For further information and clarifications, please contact our Technical support.

## CONSUMPTION

approx. 1.6 kg / m<sup>2</sup> / mm = approx. 1.6 kg /m<sup>2</sup> for each layer 1 mm thick

## PACKAGING

- 28 kg set: 21 kg component A in a paper bag + 7 kg component B in a plastic canister,
- 8 kg set in a bucket: 6 kg component A in a PE bag + 2 kg component B in a PE bottle.

## STORAGE

- Store the product in tightly sealed packaging in a dry, airy location. Protect it from damage, water and moisture, and direct sunlight.
- A properly stored product has a shelf life of at least one year after the date of manufacture.
- The product may still be used after the date of expiry, but the characteristics important for the intended use have to be examined.

## HEALTH, SAFETY AND ECOLOGY

The product contains cement which irritates the eyes and skin. May cause allergic reactions in contact with skin. Wear suitable protective gloves during work. Avoid contact with eyes (protective goggles) and inhalation of dust. Follow the general instructions for working with chemicals: take care of cleanliness, do not eat, drink or smoke while working. After finishing work, wash hands thoroughly with water.

More information on safe handling and disposal of the product is available in the safety data sheet, which is provided on request, and is also available from the dealer or distributor where you purchased the product.

## WARNING

Instructions and recommendations are given based on examinations in our laboratories and experience to date. Due to the specific conditions and work methods, preliminary tests are advised for each individual case of use.

Since we cannot influence the course of work, we cannot not be held responsible for its quality!



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