



Technical datasheet

FLY WP 07 Flex

High Flexible protective waterproofing cement-based slurry

Description

Fly WP 07 Flex is a two-component highly flexible multi-purpose waterproofing slurry consisting of cement-based powder mortar (component A) and emulsion resin (component B). After hardening, it forms a seamless membrane with the following advantages:

- Crack-bridging ability ≥ 3 mm
- Total waterproofing against positive hydrostatic pressure up to 3 bar according to EN 12390-8
- Excellent elongation $\geq 140\%$
- Total waterproofing to negative pressure
- Vapor permeability
- Resistance to aging
- Bonding to wet surfaces without priming
- Perfect bonding to substrates like concrete, masonry, plaster, etc.
- Suitability for potable water tanks as well as food contact surfaces according to the Egyptian code of practice for damp and waterproofing
- Comply with the requirement of the National Organization for potable water
- Protect concrete from carbonation attack
- No corrosive effect on the reinforcing steel in concrete

Certified according to EN 1504-2 and classified as a coating for surface protection of concrete.

Fields of application

It is used for waterproofing concrete, elements, masonry, and plaster surfaces. (In cases ranging from simple moisture to water under pressure)

The product is used for both external and internal, against humidity or water under pressure

Suitable for:

- Waterproofing basements
- Water tanks
- Swimming pools
- Sewage tanks
- Balconies, kitchens and bathrooms
- Rooftops

It enables the internal waterproofing of underground areas since it can withstand negative water pressure

Consumption

Depending on the water load, minimum consumption, and relative thickness should be as follows:

Water load	Min. consumption	Min thickness
Moisture	2 Kg/m ²	1.5 mm
Water without pressure	3 Kg/m ²	2 mm
Water under pressure	3.5-4 Kg/m ²	2.5 mm



Technical data

Form: component A cementitious powder

Component B emulsion resin

Colors: grey and white

Mixing time 3 mints

Density of dry mortar: 1.7 ± 0.05 Kg/l

Density of fresh mortar: 1.9 ± 0.10 Kg/l

Compressive strength

After 28 days (ASTM C 942): $\geq 30-40$ N/mm²

Flexural strength

After 28 days (ASTM C580): $\geq 10-12$ N/mm²

Bond strength (EN 1042): ≥ 1.5 N/mm²

Direction for use

Substrate preparation

- The substrate must be clean, free of oil or grease, loose material, dust, etc.
- Any cavities on the concrete surface should be filled and smoothed out with a cement mortar improved with SBR liquid after all loose aggregate has been removed and the surface has been well-dampened.
- Starter bars and wooden molds should be cut to a depth of about 3cm into the concrete and the holes should be sealed.
- Existing construction joints are opened longwise in a V shape to a depth of about 3cm and are subsequently filled as above.
- Corners like wall-floor junctions should be filled and smoothly rounded with a cement mortar, improved with SBR (formation of a Fillet, triangular in cross-section, with 5-6cm sides).
- In the case of masonry walls, joints should be first filled carefully;

otherwise, applying a cement mortar layer is recommended first improved with Fly bond SBR.

- For waterproofing basements in old buildings, any existing plaster coat should be removed to a height of at least 50cm above the water level and then proceed as above.
- Wherever flat surface formation is required (smoothing, slope creation, etc.), a mortar improved with Fly bond SBR is recommended.

Application

The whole component A is added to the liquid component B under continuous stirring until a uniform, viscous mixture is formed, suitable for brush application. The substrate should be well dampened but without ponding water. The material is applied in two or more layers, depending on the water load and the consumption required. Layers thicker more than 1 mm should be avoided, because the material may crack. Each new coat is applied after the previous one has dried. The freshly coated surface should be protected from high temperatures, rain, and frost

Packaging

20 Kg paper bags + 10 L emulsion plastic container

12 months from production date

Stored unopened packaging in dry condition