



Technical datasheet

FLY WP 05

Waterproofing cement-based slurry

Description

Fly WP05 is a two component multi-purpose water proofing 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:

- Total waterproofing against positive hydrostatic pressure up to 5 Atm according to EN 12390-8
- Total waterproofing to negative pressure
- Vapor permeability
- Resistance to aging
- Bonding to wet surfaces without priming
- Perfect bonding to substrate 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 water proofing
- Comply with the requirement of National organization for potable water
- Protect concrete from carbonation
- 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 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
- Roof tops

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

Consumption

Depend 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



Construction Chemicals

Compressive strength

After 28 days (ASTM C 942): $\geq 30-35 \text{ N/mm}^2$

Flexural strength

After 28 days (ASTM C580): $\geq 8-10 \text{ N/mm}^2$

Bond strength (EN 1042): $\geq 8-10 \text{ N/mm}^2$

Direction for use

Substrate preparation

- The substrate must be clean, free of oil or grease, loose material, dust, etc.
- Any cavities on 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 sides of 5-6cm.
- In case of masonry walls, joints should be first filled carefully; otherwise, it is recommended to apply a cement mortar layer 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.) the use of a mortar improved with Fly bond SBR is recommended.

Application

The whole component A is add 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 temperature, rain, and frost

Packaging

20 Kg paper bags + 5 L emulsion plastic container

12 months from production date

Stored unopened packaging in dry condition