

**Water-based epoxy fixative sealer with low viscosity.
Excellent penetration ability in mineral substrates.**

WB: Water Based

Description

FL05 is a two-component, water-based epoxy primer, used for mineral substrates preparation before applying any water-based or self-levelling system.

Due to its high penetration ability it is an ideal fixative for slightly porous substrates with some consistency, providing the necessary adhesion for painting systems complying with all types of mechanical requirements.

Properties

- Excellent adhesion over concrete, cement and plaster due to its great penetration power by capillary action.
- Fixes and waterproofs masonry and construction materials.
- Offers adhesion even on ceramic materials.
- Provides anchorage to subsequent paint layers.
- Recoatable with water-based or solvent-free systems, both epoxies and polyurethanes, such as polyurethane membranes.
- Can be applied on dry or wet substrates obtaining the same adhesion.
- Used as an anti-moisture background before painting.
- Easy and quick to apply.
- Practically odourless due to its water-based formulation.

Recommended uses

- Suitable to be used indoors and outdoors.
- Fixative sealer recommended for our water-based epoxy thin layer system (**FL05**), as well as our self-levelling systems (**FL11**, **FL12**) or our conductive system (**FL06**, **FL07**).
- Our **FL03 + FL05** system allows pedestrian traffic in 24 hours.
- Suitable for floors on garages, parking lots, hangars or industrial units.
- Especially suitable for places where health and safety conditions do not allow the use of solvent-based coatings, such as food industry, pharmaceutical industry, supermarkets, warehouses or hospitals.
- It can be applied on floors, walls and baseboards for rooms in sanitary environments.
- Suitable for maintenance: applicable on aged epoxy systems, providing excellent sealing before pavement maintenance recoating.

Basic characteristics

Data at 23 °C and 60% HR

Colour:	Colourless
Finish:	Brilliant
Volume solids:	45 % ± 2%
Specific weight:	1.04 ± 0.05 g/ml
Recommended dry thickness as primer:	1 ó 2 layer (depending of the support absorption)
Theoretical coverage (Kg/m ²):	0.2-0.3 Kg/m ² (depending of the support absorption)
Dry to Touch:	4 hours
Total dry:	12 hours
Recoating time:	Min : 8 hours Max : 48 hours
Pot-life:	60 minutes (do not exceed)
Cured:	1 day (cured 50%). Allows transit. 7 days (cured 90%) 14 days (cured 100%)

Drying and recoating times

Temperature	10 °C	20 °C	30 °C
Total dry	24 h	12 h	8 h
Min. recoating *	18 h	8 h	6 h
Max. recoating	3 d	48 h	28 h

d: days; h: hours;

- Referred to substrate temperature.

- To achieve the best adhesion between layers it is advisable to apply it within the minimum recoating time.

Application conditions

- Room temperature must be above 10 °C and below 35 °C.
- Relative humidity must be below 75 %
- In order to avoid condensation and blistering, the surface must always be 3°C above the dew point.
- After application, avoid direct contact with water or condensation during, at least, following 24 h (at 20°C).
- Be sure primer layer is continuous and has not pores; if not, apply a second primer coating.

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Surface preparation

- Generally, all surfaces (either old or new) to be coated need to be clean, dry and free from dirt, oils and other contaminants. Regarding new concrete, it must have been completely hardened (>28 days of curing) and have a moisture lower than 4%, measured at a depth of 2 cm.
- An “open-pore” superficial texture is required all along the surface, for which mechanical preparation such as milling, blasting, scarifying, roughing down, diamond polishing or sanding should be made, always according to specific requirements for every surface (if in doubt, please ask our Technical Department).
- If the floor is not correctly sealed, in bad condition or with some slurry, remove first all previous systems using mechanical means. After removal, a surface preparation as described before is required.
- In the case of cracks and blowholes, those should be repaired and filled using **FL10** as a repair mortar, in order to achieve a levelled and compact surface.
- Concrete on the surface must have traction resistance not lower than 1.5 N/mm² and a compression resistance not lower than 25 N/mm².
- In slightly porous supports water dilution (10% water) in the first layer is recommended.

Application directions

FL03-PV. Epoxy WB Fijativo is supplied as two-cans sets that must be mixed before application.

- Add the Hardener (component B) over the Base (component A) and homogenize using a low-speed electric stirrer.
- Avoid a long mixing time and keep the stirrer always submerged in order to avoid, as long as possible, introducing air bubbles in the mixture.
- Apply within the self-life of the product, respecting pot-life and recoating times (as shown in corresponding tables above).
- The product is supplied ready to use, although water dilution (10% water) in the first layer is recommended for slightly porous supports.
- Clean equipment with water after application.

Mixing ratio (volumen): 80% Base
20% Hardener

Mixing ratio (weight): 78% Base
22% Hardener

Pot-life 60 minutes

Induction time N.A.

Thinner Water

Cleaning solvent Water

Airless 0-5% Water

Brush / Roller Long or short hair roller

Remarks

- Over difficult surfaces (such as concrete in a bad condition or cleaning concrete) a previous test in a small area is recommended to confirm a good adhesion of the whole system.
- Be sure that the primer layer is continuous and has no pores; otherwise, apply a second primer coating.
- To achieve a better adhesion between layers, application at the minimum recoating time is recommended.
- If application area needs to be heated, use only electric air heaters, as any other devices (gas, petrol, paraffin heating) can produce big quantities of CO₂ and H₂O which can negatively affect the final coating layer.
- Tools and application equipment should be immediately cleaned after use with recommended cleaning solvents.
- Theoretical coverage can vary depending on different aspects such as application method, surface rugosity or application wastes.
- All technical info included in this TDS is based on lab tests. Measurements of parameters can vary depending on external situations beyond our control.

Safety precautions

Safety labels of the packaging containing information necessary for proper handling. It is important to meet the requirements of the legislation. As a general rule, inhalation of solvent vapours and paint mist should be avoided, as well as contact of liquid paint with skin and eyes. When paint is applied in enclosed spaces forced ventilation should be provided, accompanied by the appropriate respiratory protection, skin and eyes, especially when applied with spray.

Complete information can be found on the safety data sheet available in www.pinturasvillada.com

Packaging and storage

Sets of 20 liters: Base 16 l (filled in 20 liters cans); Hardener 4 l.

Sets of 10 liters: Base 8 l (filled in 10 liters cans); Hardener 2 l.

Sets of 5 liters: Base 4 l (filled in 5 liters cans); Hardener 1 l.

Store indoors between 5 and 40°C during 12 months (unopened) and far from heat sources.

After this time the use of the product is not recommended. Ask for a possible inspection in our plant.