

Waterproofing Systems / Polyurethane Based

POLAN® 500

Polyurethane Coating and Waterproofing Material

DESCRIPTION

Polyurethane based, single component, ready to use, **UV resistant**, walkable, solventborne liquid **coating** and **waterproofing** material.

APPLICATION AREAS

- Outdoor,
- Surfaces such as concrete, stone, corrugated plate, metal,
- Waterproofing of terrace roofs, hidden gutters,
- Protecting polyurethane foam from UV radiation.

TECHNICAL PROPERTIES

Appearance	Off white or grey colored liquid emulsion
Density	~ 1.40 kg/L
Application Temperature	Between +5°C and +30°C
Solid Content	~ 90%
Bond Strength by Pull-off	≥ 0,8 N/mm ² (TS EN 1542)
Elongation at Break	> 600% (7 days) (DIN 53504)
Tensile Strength	2.30 N/mm ²
100% Modulus	2.10 N/mm ²
Hardness (Shore A)	65 (7 days)
Walk-on Time	8 – 12 hours (+23°C)
Service Temperature	Between -30°C and +90°C

ADVANTAGES

- Applied perfectly on all types of surfaces, even on older coatings.
- Single component** and solventborne. Easy to apply, elastic. Can cover capillary cracks.
- Resistant to sunlight. Stable to depolymerization
- Provides seamless and jointless waterproofing.
- Highly resistant to aging, diluted acids, bases, salt, chemicals, mould and weather conditions. Can keep initial properties for years.
- Has high solid content.
- Resistant to plant roots.
- Since it is permanently elastic, no cracking can be observed later on the surfaces applied. After curing, it can be walked on.
- Applied on single or double component polyurethane materials for protection.

CONSUMPTION

500 - 800 gr/m² on each layer (Varies depending on the absorption and roughness of the surface.) Minimum 2 layers are applied.

PACKAGING

3 kg and 25 kg tin buckets

APPLICATION

PREPARATION OF THE SURFACE

- The surface must be dry and absolutely free from moisture.
- The surface must be clear of materials that prevent bonding, such as dust, oil, tar, paint, silicone, curing materials, detergents and mold oils.
- Repair the weak parts of the concrete, remove poorly adhered plasters; make the surface sound and solid. Repair the static cracks in the building with a plaster with **AQUALATEX** or **REPAIRGROUT EXPAN High Strength Shrinkage-Free Grout Mortars**. Fill the dynamic (moving) cracks with FIXA's appropriate MS, hybrid or polyurethane sealants. Seal any areas of water ingress with **AQUASTOP**.
- Prime the surface with **POLAN A Polyurethane Floor Primer**.

APPLICATION

- POLAN 500 is ready for use. Do not add any external substance.
- Apply single component POLAN 500 Polyurethane Coating and Waterproofing Material to the surface with a brush, roller or spray gun. It is necessary to apply at least two layers. Wait 12 hours between the layers.
- Final curing takes place in 7 days.

CAUTION

- Contains solvent, flammable.
- Avoid application at temperatures below +5°C and above +30°C.
- Pay attention to the ventilation conditions in closed spaces. Otherwise serious health problems may occur.
- POLAN 500 is not suitable for waterproofing of drinking water tanks and swimming pools. For this type of surfaces, use **POLAN 620** or **POLAN 590** (swimming pool only).
- Do not apply on surfaces with negative water pressure.
- Do not add water, do not thin. If necessary, it can be thinned with a maximum of 10% pure xylene, this ratio should not be exceeded. Do not use other thinners.
- For ideal results, it should be kept at +15°C for at least 24 hours before application.
- After application, protect the surface from water, rain, dew, frost and snow until it is completely dry.

SHELF LIFE

Expires in 12 months. Store unopened packages between +10°C and +25°C, in a dry environment. Protect from sunlight.

HEALTH AND SAFETY

Contains isocyanate. As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Consult a doctor if accidentally swallowed. In case of contact with skin, rinse with water. Do not approach with open flame and do not smoke during application. Work only in adequately ventilated areas. Do not leave the cover open. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Construction Chemicals Ltd. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.