

Waterproofing Systems / Polyurethane Based

POLAN® 620

Polyurethane Based Double Component Waterproofing Material

Approved by METU Chemical Eng.Dept.
for drinking water contact compatibility
Report no: 2009.03.04.718/05

DESCRIPTION

Polyurethane based, double component, **solvent free** liquid waterproofing material.

APPLICATION AREAS

- Indoor, and outdoor (under the coating),
- Horizontal and vertical surfaces,
- Surfaces such as concrete, stone, wood and metal,
- Water tanks, cisterns.

TECHNICAL PROPERTIES

Appearance	Pool blue or off white colored liquid emulsion
Mixture Density	~ 1.35 kg/L
Mixing Ratio	5 kg Component A 1 kg Component B
Application Temperature	Between +5°C and +30°C
Time to Use Mixture	30 – 45 minutes
Walk-on Time	24 hours (+23°C)
Complete Hardening	3 days
Service Temperature	Between -30°C and +90°C

ADVANTAGES

- Safe to use indoor since it is solvent free. Does not mix with potable water.
- Easy to apply with a brush or a roller.
- Bonds perfectly on all types of surfaces.
- No cracking can be observed later on the surfaces applied.
- Provides seamless and jointless waterproofing.
- Not affected by temperature changes between - 30°C and +90°C.
- Resistant to salt water, salt solutions, bases, diluted weak acids (with maximum 10% acidity).
- Resistant to aging.

CONSUMPTION

600 g/m² on each layer (Minimum 2 layers are recommended.)

PACKAGING

Component A: 5 kg tin buckets
Component B: 1 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**.

MIXTURE

- POLAN 620 is packaged in suitable quantities in two components. Add 1 kg component B to 5 kg component A and mix for 2 – 3 minutes with a mixer with 300 – 400 rpm until a homogenous consistency is obtained.
- Components are packaged in correct mixing ratios. If a part of the product is to be used, this ratio should not be changed.

APPLICATION

- No primer is required before POLAN 620 application.
- Apply the mixture to the surface with a brush or roller. Remove the air bubbles with a spiked roller within 10 minutes and apply at least 2 coats. Wait 12 hours between the layers. This period should not exceed 24 hours.
- Irreversible gelling starts 30 - 45 minutes after mixing.
- Final curing takes place in 3 days.

CAUTION

- Avoid application at temperatures below +5°C and above +30°C.
- Pay attention to ventilation conditions in closed spaces. Otherwise serious health problems may occur.
- Since it does not have UV resistance, it should not be exposed to direct sunlight.
- Do not apply on surfaces with negative water pressure.
- After application, protect the surface from water, rain, dew, frost and snow until it is completely dry. Avoid contact with water for at least 2 hours.
- It can only be used in swimming pools by coating POLAN AF Polyurethane Aliphatic Top Coat Paint (UV Resistant) on it.

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.