PROPAM® PUR

Pigmented liquid polyurethane elastic membrane for waterproofing and protection.

PROPAM® PUR is a pigmented, single component polyurethane liquid membrane which, once polymerised, forms a continuous, impermeable and very elastic membrane, that is weather resistant and has excellent adhesion, for waterproofing and protecting surfaces.

FIELDS OF APPLICATION

- Waterproofing all kinds of roofs, even those with intense traffic.
- Waterproofing patios and balconies.
- Waterproofing wet areas under floor tiles, such as bathrooms, changing rooms, patios, etc.
- Waterproofing water ducts and channels.
- Waterproofing water tanks.
- Waterproofing flower beds, gardens and green roofs.
- Waterproofing the outside of buried structures in public works and building.

PROPERTIES

- Great elasticity, over 600 %.
- Excellent adherence on all kinds of substrates.
- Great fissure bridging capacity.
- Resistant to temperatures, maintaining its characteristics between -40 ºC and +80 ºC.
- Totally waterproof. Suitable for permanent immersion.
- Permeable to water vapour, allowing the substrate to transpire.
- Good chemical, impact and abrasion strength.
- It forms a continuous coating without joints or overlaps, completely adhered to the substrate and the singular points.
- Easy to apply, ready for use manually or using a gun.
- High resistance to weather conditions and UV rays.

HOW TO USE

Preparing the substrate:

The substrates must be firm, dry, clean, free of any loose particles, oils, grease, dust, release agent remains or any other substance that can affect adhesion strength. Irregularities or surface damage to the substrate must be treated beforehand so as to provide a surface with as regular, smooth and even a finish as possible, which helps to distribute and cover with the membrane.

Any possible cracks and fissures must be sealed before applying the membrane, cleaning them and sealing them with a first coat of **PROPAM® PUR** reinforced with **BETOFIBER POLIESTER** polyester fibre fabric. Expansion joints must be prepared and treated with **BETOFLEX** systems.

Primer:

If the substrate has a slightly damp surface or has high porosity, it is advisable to seal it with the **PROPAM® PUR PRIMER W** primer.

In the case of substrates with very low porosity, it is advisable to apply the **PROPAM® PUR PRIMER** adherence promoting primer.

Mixing:

PROPAM® PUR is ready to use, and therefore does not need any solvent added, or any other component, however it must be mixed before being used with a low revolution mechanical mixer (300-400 rpm) to avoid trapping any air in the mixture.

Application:

Pour **PROPAM® PUR** over the prepared surface and spread it with the help of a brush or roller until it covers the whole surface, using an approximate amount of 0.5-0.6 kg/m^2. It is also possible to apply it using a high pressure air-less gun, which largely improves the performance.

It is advisable to reinforce problematic areas and singular points, using the **BETOFIBER** polyester or fibreglass net, by placing it over the membrane when fresh, then saturating it with the help of a roller.

The second coat can be applied once the first coat is dry to touch (between 6 and 24 hours), using an approximate amount of 0.7-0.9 kg/m^2. Sometimes depending on the nature of the substrate and the performance level requirements, it is advisable to apply a third coat of **PROPAM® PUR**, using a total approximate amount of 2 kg/m^2.

For applications at low temperatures (< 15 ºC) or when quick surface drying is required, it is possible to add a pack of 1 kg of the **PROPAM® PUR FAST** hardening accelerant for every 25 kg drum of **PROPAM® PUR**. The repainting time if using the accelerant is 3-4 hours.

Finish:

If requiring a high quality, colour finish that is fully stable over time, it is advisable to apply pigmented **PROPAM® PUR TRANS**, which provides a finish that withstands light traffic, and also an anti-slip finish using a light aggregate dust.

Tool cleaning:

The tools are to be cleaned with universal solvent immediately after use. Once hardened, it can only be removed mechanically.

COVERAGE

The recommended consumption is between 1.5 and 2 kg per m^2, applied in two or three layers, with a final thickness of between 1.2 and 1.6 mm.

However it is advisable to adjust the amounts and the final thickness according to the conditioning factors of the project, the usage and the substrate.

PACKAGING

6 and 25 kg metallic packages.

Colours: White, grey and brick red.

STORAGE

12 months, in its original closed packaging, in a fresh, covered place, protected from damp, sunlight and freezing temperatures.

INDICATIONS TO TAKE INTO CONSIDERATION

- Do not apply under +10ºC, or when lower temperatures are forecast for the next 24 hours.
- The humidity of the substrate must be less than 4 %.
- Do not apply if counterpressure humidity is forecast.
- If diluting use pure xylene in a maximum proportion of 5 %. Do not add components that may affect the properties of the material.
- Wait at least 28 days before applying on fresh mortar or concrete.
- It is not advisable to wait more than 48 hours between applying the various layers.
- For applications under permanent immersion, allow complete curing beforehand over 7 days.
- All the areas susceptible to movement such as singular points, joints, fissures, meetings or wrought iron with lots of movement, must be reinforced.

TECHNICAL DATA

Content in dry solids	> 85 %
Density	1.3-1.4 g/cm^3
Viscosity	3000-6000 Cps
Water vapour diffusion strength	0.8 g/m^{2}h
Repainting (25 ºC)	6-24 hours
Dry to the touch (25 ºC)	6 hours
Hardness (Shore A)	70
Tensile strength (23 ºC)	55 kg/cm^2
Elasticity at 23 ºC	> 600 %
Service temperature	From -40 C to +80 ºC
Elasticity at -25 ºC	450 %
Adherence to concrete	> 2 N/mm^2
Application temperature	+10 ºC to +35 ºC

CE MARKING

CE

ETAG 005 Part 1 and Part 6

ETE 16 / 0659

HEALTH AND SAFETY

All the information about conditions of usage, use, storage, transport and removing chemical waste is available on the product Safety Data Sheet.
The product and its packaging must be disposed of according to current legislation and it is the responsibility of the product end user.

LEGAL NOTICE

The data contained in this document are based on our experience and technical knowledge, gained during laboratory assays, and our bibliography. We will not be responsible for any other product applications not indicated in this file. The dosage and consumption data are only guidelines, based on our experience. Said data, and may alter due to atmospheric or on-site conditions. For correct dosage and usage amounts, it is necessary to conduct a trial or assay "in situ", for which the client is responsible. If you have any doubts or require additional information, please contact our Technical department. The valid technical sheet will always be the latest version that will be located in www.propamsa.es. March 2021.

PROPAMSA®
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