PR1ME®
SEALANTS • ADHESIVES • WATERPROOFING

PU-110
Single Component Polyurethane

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TECHNICAL DATA SHEET

POLYURETHANE WATERPROOFING MEMBRANE

DESCRIPTION

PU 110 is a single component, easily applied, polyurethane based, liquid waterproong membranes. It creates an elastic and durable lm layer by curing with the humidity in the air.

TYPICAL APPLICATIONS

- Car parks,
- Irrigation channels,
- Asphalt membranes,
- Gypsum and cement panels,
- Exposed roofs,
- Indoor and outdoor applications,
- Terrace, veranda and balconies,
- Wet areas in indoor (bathroom, kitchen and etc.).

FEATURES AND ADVANTAGES

- PU 110 is Certied according to ETAG 005, W3 category.
- Easy to apply (by brush, roller or spray).
- When applied it forms a one-piece layer that does not couse joint formation or leakage.
- Resistant to continuous water contact.
- Preserves its mechanical properties between -40°C and +90°C.
- It is permeable to water vapor. Having a breathable structure is does not cause accumulation in the substrate.
- When the material is damaged, it can be repaired easily and quickly with PU110.
- Excellent UV resistance.
- Excellent chemical resistance.

CONCRETE SUBSTRATE STANDARDS

- Hardness: R28 = 15 Mpa
- Humidity: W <10%
- Temperature: + 5 °C and + 35 °C
- Relative Humidity: <85%

For detailed information, please consult our technical department.

APPLICATION PROCEDURE

• SURFACE PREPERATION

In order to ensure a good adhesion oil, grease, paran waste, cement grout, loose particles, mold release agents, cured old membranes should be removed from the surface before the application. The surface should be thoroughly dried after washing with high pressure water and should be free from damp. Surface defects and cracks should be repaired with suitable products.

• APPLICATION

Before using, the package should be opened and mixed with a low speed mixer for 2-3 minutes. For spray application, add PRIME SOLVENT at a maximum rate of 5% - 7%. The primed surface should be applied with a roller, squeegee or brush until the entire surface is covered, by pouring the product within minimum 2 layers. After the rst layer is applied, the second layer should be applied minimum 6 hours and maximum 24 hours later. If the application has not been made within the specied time for the second layer, please consult the technical office of PRIME agent for information and solutions before application. In order to increase the acceleration of the drying in cold weather, it is recommended to use ACC CATALYST if desired. Consult our technical department for thinning process.

THE APPLICATION METHOD FOR W3 DURABILITY ACCORDING TO ETA-23/0032

1 Primer: PRIME EP-60 EPOXY PRIMER
2 Waterproong: PRIME PU-110 as two layers
3 Interlayer : White and 65 gr/m felt

After the surface is cleared from separator layers and mechanically wiped, EPOXY PRIMER is applied on it as 0.5-0.60 kg/m. Before the epoxy primer gets dry, 0.3-0.7 mm silica sand is sprinkled on it. After 24 hours, the silica sand on the surface is cleared and PU-110 application starts. Before use, the package should be opened and mixed with a low speed mixer for 2-3 minutes. PU-110 is applied to the surface with a roller or squeegee as one coat and a 65 gr/m white polyester felt is laid on the product before it gets dry, and a second coat of PU-110 should be applied on it again. In this system, the amout of PU-110 that should be used is min 2.0 kg/m. Total system thickness should be 2.3 mm

APPLICATION REMARKS

- It should be covered with PU 650 TC-1K or PU 600 TC-1K aliphatic exible top coat material in order to extend the strength and shelf life of polyurethane based waterproong products which are applied to areas exposed to open air conditions or pedestrian traffic.
- Not recommended for loose and unstable surfaces.
- It is not used for waterproong of swimming pools with chemically treated water.

CONSUMPTION

- First Layer (minimum): 0,70 - 0,90 kg/m
- Second Layer (minimum): 0,70 - 0,90 kg/m
- Airless Spray (for each layer): 0,75 - 0,90 kg/m
- Total Consumption (minimum): 1,40 - 1,80 kg/m

CLEANING

After the application, all tools should be cleaned with PRIME SOLVENT. Rollers and brushes should be disposed of.

PACKAGING AND COLOR

It is white and grey in 5 kg and 18 kg metal buckets.

STORAGE AND SHELF LIFE

The product can be stored for a maximum of 12 months in unopened original pail at temperatures between + 5°C and +25°C. Opened product should be used at the soonest.

PRECAUTIONS

The product should be used in well ventilated environments. The product should not be in contact with open res. Smoking should not be allowed during application. Protective gloves and masks should be used for hands and eyes during application. If the material comes into contact with eyes, it should be washed immediately with sucient water. For more detailed information, ask for the Safety Data Sheet (MSDS) from PRIME technical department.

ETA
European Organisation for Technical Assessment

kiwa certified ISO 14001 kiwa certified ISO 9001 kiwa certified OHSAS 45001
TSE TS EN 1504-2
CE
ДОБРОВОЛЬНАЯ СЕРТИФИКАЦИЯ

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TECHNICAL DATA		
QUALIFICATION	**METHOD**	**FEATURE**
Coating Type	Manuf Lab.	Single Component Polyurethane
Density	ASTM D 1475 / EN ISO 2811-1 (+20°C)	1,40 ±0,05 gr/cm³
Viscosity	ASTM D4287 (+25°C)	3000 - 6000 cp
Flash Point	ASTM D93	35 °C
Water Vapor Permeability	ASTM E96	0,8 gr/m² hour
Gloss	Manuf Lab.	Semi-Gloss
Application Temperature	Manuf Lab.	+5°C to +35°C
Shock Heat Resistance	Manuf Lab.	200°C - Passed
Solid Content	Manuf Lab.	%85 (±5)
Hardness	ASTM D2240, DIN 53505, EN ISO R868	60 (Shore A)
Elongation at Break	ASTM D 412 (+23°C)	> %500
Tensile Strength	ASTM D 412 (+23°C)	> 6 N/mm²
Adhesion to Concrete	TSE EN 1542 (+23°C)	> 2 N/mm²
QUV	ASTM G53	2000 hours - Passed
Service Temperature	Manuf Lab.	-40 to +90°C
Tack Free Time	25°C / 55% RH	4 hours
Recoat Time	Manuf Lab.	6 to 24 Hours
Hydrolysis (%8 KOH, 15 days at 50 °C)	Manuf Lab.	No significant change observed in elastomeric characteristic
Hydrolysis (HO, 30 days rotative, 60-100 °C)	Manuf Lab.	No significant change observed in elastomeric characteristic
HCl (PH=2, 10 day at RT)	Manuf Lab.	No significant change observed in elastomeric characteristic
Hydrolysis (HO, RT 100 °C 14 days rotative)	Manuf Lab.	No significant change observed in elastomeric characteristic
Thermal Resistance (100 days at 80 °C)	EOTA TR011	Passed

Viscosity measured at + 25°C according to EN ISO 3219 standards. Viscosity increases inversely with temperature.

	PU 110	**PU 110**
Minimum Expected Working Life	W3 (25 years)	W2 (10 years)
Climatic Zone	S (severe)	
Used Load	P1	P3
Roof Slope	S1-S4	
Minimum Surface Temperature	TL3 (-20 °C)	
Maximum Surface Temperature	TH4 (90 °C)	TH3 (80 °C)
Exposure To External Fire	Broof (t1,t4)	
Reaction To Fire	Class E	

DISCLAIMER

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ISO 14001 ISO 9001 OHSAS 45001 TS EN 1504-2