



Technical Data Sheet

AWAZEL PU 670

Liquid-applied polyurethane waterproofing membrane

INTRODUCTION

AWAZEL PU 670 is a liquid-applied, permanent elastic, cold applied and cold curing, bitumen extended, one component polyurethane membrane used for long-lasting waterproofing. Solvent based.

AWAZEL PU 670 is based on pure elastomeric hydrophobic polyurethane resins, and is extended with chemically polymerized virgin bitumen, which result in excellent mechanical, chemical, thermal and natural element resistance properties. Cures by reaction with ground and air moisture.

ADVANTAGES

- Simple application.
- When applied forms seamless membrane without joints.
- Resistant to water.
- Resistant to frost.
- Provides excellent crack-bridging properties.
- Provides excellent thermal resistance
- Maintains its mechanical properties over a temperature span of -40°C to +90°C.
- Provides excellent adhesion to almost any type of surface.
- Resistant to domestic chemicals.
- Even if the membrane gets mechanically damaged, it can be easily repaired locally within minutes.
- Does not need the use of open flames (torch) during application.

USES

AWAZEL PU 670 is used for:

- Waterproofing of Foundations
- Waterproofing of Retaining Walls
- Under-tile Waterproofing in Bathrooms, Kitchens, Balconies, Terraces, Roofs, etc

Instructions for Application Surface Preparation:

Careful surface preparation is essential for optimum finish and durability. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. Maximum moisture content should not exceed 5%. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa. New concrete structures need to dry for at least 28 days. Old, loose coatings, dirt, fats, oils, organic substances and dust **need to be removed by a grinding machine**. Possible surface irregularities need to be smoothened. Any loose surface pieces and grinding dust need to be thoroughly removed.

WARNING:

Do not wash surface with water!

APPLICATION:

Stir well with electric drill mixer before using, for at least 2-3 minutes. Apply the **AWAZEL PU 670** onto the surface by roller or brush, until all surface is covered. After 8-24 hours, apply another layer of the **AWAZEL PU 670**.

For demanding applications, apply a third layer of the **AWAZEL PU 670**.

Reinforce always with the AWAZEL Fabric at problem areas, like wall-floor connections, 90° angles, chimneys, pipes, waterspouts (siphon), etc. In order to do that, apply on the still wet **AWAZEL PU 670** a correct cut piece of AWAZEL Fabric, press it to soak, and saturate again with enough **AWAZEL PU 670**. For detailed instructions with the **AWAZEL PU 670**, Fabric, contact our Technical Department. If the **AWAZEL PU 670** is to be covered with ceramic tiles, fully saturate with oven-dry silica sand (corn-size 0,4-0,8mm) the last layer while still wet. This saturation will create an adhesion bridge to the tile adhesive that will follow.

For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.

WARNING:

The **AWAZEL PU 670** is slippery when wet. In order to avoid slipperiness, sprinkle suitable aggregates onto the still wet coating to create an anti-slip surface. Please contact our Technical Department for more details.

COVERAGE

1,5 kg/m² applied in two layers. This coverage is based on application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature and application method can alter consumption.

HEALTH & SAFETY

AWAZEL PU 670 contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data Sheet. **PROFESSIONAL USE ONLY.**

PACKING

AWAZEL PU 670 is supplied in 20 kg, Metal pails. Pails should be stored in dry and cool rooms for up to 12 months. Protect the material against moisture and direct sunlight. Storage temperature: 5°-30°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, and batch number and application precaution labels

Colors:

The **Awazel PU 670** is supplied in black.

PU021604

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TECHNICAL DATA

Properties	SPECIFICATION	Test Method
Elongation at break	>650 %	ASTM D 412 / DIN 52455
Tensile strength	>4,5 N/mm ²	ASTM D 412 / DIN 52455
E-Modulus	>1.0 N/mm ²	ASTM D 412 / DIN 52455
Tear Resistance	>15 N/mm	ASTM D 624
Puncture Resistance	>150 N	ASTM D 154
Resistance to Hydrostatic pressure	No Leak @ 3 bar (30 m water column)	DIN 16726
Adhesion to Concrete	>1.0 N/mm ²	ASTM D 903
Hardness (Shore A Scale)	35	ASTM D 2240 (15")
Thermal Resistance	Passed – No significant changes	EOTA TR-011
Hydrolysis (5% KOH, 7 days cycle)	No significant elastomeric change	Inhouse Lab
Service Temperature	-40°C to +40°C	Inhouse Lab
Max. Temperature short time (15min shock)	250°C	Inhouse Lab
Tack Free Time	5 hours	Conditions: 20°C
Light Pedestrian Traffic Time	24 – 48 hours	
Final Curing Time	7 days	
Chemical Properties	Good resistance against acidic and alkali solutions (5%), detergents, seawater and oils.	

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