



## Technical Data Sheet

# AWAZEL PU 270

Liquid applied polyurethane waterproofing membrane

## INTRODUCTION

AWAZEL PU 270 is an liquid-applied, highly permanent elastic, cold applied and cold curing one component polyurethane membrane used for long lasting waterproofing solvent base.

AWAZEL PU 270 is based on pure elastomeric hydrophobic polyurethane resins, which result in excellent mechanical, chemical, thermal and natural element resistance properties cures by reaction with ground air moisture.

## ADVANTAGES

- Simple application (roller or airless spray).
- When applied forms seamless membrane without joints.
- Resistant to water.
- Resistant to frost.
- Crack bridging.
- Provides water vapor permeability, so the surface can breathe.
- Provides excellent thermal resistant, it never turns soft.
- Waterproof old bitumen asphalt felts by covering them, without the need to remove them prior to application.

## USES

AWAZEL PU 270 is suitable for use wet areas (under tiles application such as Bathrooms, Kitchens, Balconies and Auxiliary rooms etc..

## INSTRUCTION FOR APPLICATION

**Surface preparation:** Careful surface preparation is essential for optimum finish and durability the surfaces must be clean and 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 2.5MPa, cohesive bond strength at least 1.5MPa, new concrete structures need to dry for atleast 28 days; old loose coating, dirt, fats, oils, organic substances

and dust 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 before using pour AWAZEL PU 270 onto the prepared surface and lay it out by roller or brush until all surface is covered or you can use airless spray allowing a considerable saving of manpower. After 12-18 hours (not later than 48 Hrs.) apply another layer of the AWAZEL PU 270, upon demanding application apply a third layer of the AWAZEL PU 270.

## COVERAGE

Approximate rate : 1.2-1.5Kg/m<sup>2</sup> applied in two or three layer, this coverage 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 270 contains isocyanides, see information supplied by the manufacturers, and please study the safety data sheet ( Professional use only).

## PACKING

AWAZEL PU 270 is supplied in 25Kg.

## STORAGE

Pails should be stored in dry and cool rooms for up to 9 months, protect the materials against moisture and direct sunlight, storage temperature 5° - 30° C and should remain in their original unopened containers.

## Colors:

AWAZEL PU 270 is supplied in white, gray and black in colors, other colors may be supplied upon demand.

PU011604

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## TECHNICAL DATA

Properties	SPECIFICATION	Test Method
Elongation at break	> 400%	ASTM D 412 / DIN 52455
Tensile strength	> 4 N/mm <sup>2</sup>	ASTM D 412 / DIN 52455
Water vapor permeability	>25gm/ m <sup>2</sup> / day	ISO 9932:91
Resistance to water pressure	No leak ( 1m water column, 24 Hrs)	DIN EN 1928
Adhesion to concrete	>2.0N/mm <sup>2</sup> (concrete surface failure)	ASTM D 903
Hardness (Shore a scale)	65	ASTM D 2240 (15")
Thermal resistance (80° C for 100 days)	Passed no significant changes	EOTA TR - 011
Hydrolysis (5% KOH, 7 days cycle)	No significant elastomeric change	In house lab
Service temperature	-30°C to +90°C	In house lab
Tack free time	8 hours	Conditions: 20°C. 50% RH
Light pedestrian traffic time	24 hours	
Final curing time	7 days	
Chemical properties	Good resistance against acidic and alkali solutions (5%), detergents, seawaters and oil.	