ALSAN 500

SOPREMA

Roofing and Waterproofing Polyurethane Membranes

DESCRIPTION

ALSAN 500 is a highly flexible resistant liquid roofing and waterproofing system. Part of SOPREMA's ALSAN line polyurethane waterproofing products, the **ALSAN 500** system consists of a primer coat and 3 single-component polyurethane coats. Due to its superior elongation properties and puncture resistance, the **ALSAN 500** system waterproofs and protects roof concrete structures.

ALSAN H80 is a single component primer composed of polyurethane resin.

ALSAN 500 is a single component UV resistant polyurethane resin waterproofing membrane.

ALSAN 500 F is a single component UV stable polyurethane resin wear coat.

ALSAN 500 FT is a clear single component UV stable polyurethane resin finish coat.

ADVANTAGES

HIGHLY RESISTANT

The ALSAN 500 system resists puncture, wear, temperature variations and UV rays by providing optimal protection.

LIGHT WEIGHT SYSTEM

The ALSAN 500 system, weighing only 2 kg/m^2 is a lightweight, heavy-duty system that does not need to be recovered.

ELIMINATES RISK OF WATER INFILTRATION

The ALSAN 500 system is the perfect solution for waterproofing roofs, upstands, and complex details. This liquid waterproofing technology provides a smooth, seamless membrane that eliminates the risk of any infiltration.

WORRY-FREE APPLICATION

The ALSAN 500 system consists of single-component, polyurethane waterproofing products that require no on-site mixing, thus facilitating installation and reducing the risk of curing issues.

INSTALLATION

SURFACE PREPARATION:

Concrete must be cured (28 days) with a minimum hardness of 24MPa.

Surface needs to be sound, clean and free of dust or debris.

Concrete surface must be prepared to obtain concrete surface profile (CSP) of 2, 3 or 4 as per the International Concrete Repair Institute (ICRI). To obtain such a profile, the use of special equipment such as shotblasting is recommended.

Concrete substrate should have a maximum moisture content of 1.5 kg/100m^2/24h (ASTMF1869) and internal content of 75% RH (ASTM F2170) and be prepared as required to provide proper adhesion of the membrane system to the substrate with a minimum bond strength of 1.4MPa (CAN/CSA-A23.1-04/ A23.2-04 section 6B).

Cracks widths of more than 1.6mm need to be repaired with a polyurethane mastic.

Surface will be primed with **ALSAN H80** using a roller. Once primed, surface should have a glossy finish. It must be dry and tack free before applying **ALSAN 500** (maximum recoat window: 36 h).

WATERPROOFING SYSTEM:

Once primer is completely dry (minimum 6 h), apply **ALSAN 500** with a 6 mm notched squeegee. Back roll the surface to level. More than one coat could be required.

Once **ALSAN 500** is completely dry (minimum 12 h), apply **ALSAN 500 F** (maximum recoat window: 36 h) with a roller. Spread aggregates to create a non-slip surface once the installation is completed and while the surface is still wet, back roll the surface to level.

Once the last coat of **ALSAN 500** or **ALSAN 500 F** is completely dry (minimum 12 h), apply the transparent finish coat of **ALSAN 500 FT** with a roller (maximum recoat window: 36 h).

Traffic is allowed 72 h after the installation of **ALSAN 500 FT**.

For proper curing, minimum application temperature is 5°C.

QUALITY CONTROL

SOPREMA has always attached the highest importance to quality control. For this reason, we operate an internationally recognized quality system meeting ISO 9001 & ISO 14001 standards, independently monitored and certified.

ALSAN 500

SOPREMA

PROPERTIES

	Standards	PRIMER: ALSAN H80	MEMBRANE: ALSAN 500	WEAR COAT: ALSAN 500 F	FINISH COAT: ALSAN 500 FT
Physical State	-	Liquid	Self-Levelling Liquid	Self-Levelling Liquid	Liquid
Color	-	Transparent	Grey	Dark grey	Transparent
Specific Gravity @ 25°C	-	1.01	1.14	1.14	0.98
Brookfield Viscosity @ 25°C (cP)	-	10-100	1500-3500	500-1500	200-500
Solids by Weight (%)	-	42	75	72	70
Ultimate Elongation (%)	ASTM D412	-	>500	>200	>150
Tensile Strength (MPa)	ASTM D412	-	>8	>5	>5
Bond Strength (MPa)	CAN/CSA-A23.1-04/ A23.2-04 Section 6B	-	>1.6	-	-
Hardness (Shore A)	ASTM D2240	-	-	-	80

(All values are nominal)

PACKAGING

ALSAN H80
- 19 L pails
- Coverage rate: 149 m² per pail with a wet film thickness of 125 µm

ALSAN 500
- 19 L pails
- Coverage rate: 28 m² per pail with a wet film thickness of 700 µm

ALSAN 500 F
- 19 L pails
- Coverage rate: 56 m² per pail with a wet film thickness of 300 µm

ALSAN 500 FT
- 19 L pails
- Coverage rate: 70 m² per pail with a wet film thickness of 250 µm

Note: All coverage rates are approximate and may vary in accordance to application technique and surface roughness.

STORAGE

Pails must be kept away from heat, humidity or direct sunlight.

Shelf-life: up to 12 months in original sealed containers.

CLEANING

Tools can be cleaned with petroleum solvents such as mineral spirits, varsol, xylene, etc.

PRECAUTIONS

ALSAN 500 system products are flammable. Store in a cool, dry area. Use in a well-ventilated area, away from any source of flame. Avoid breathing solvent vapour and prolonged contact with skin.

CONSULT THE MATERIAL SAFETY DATA SHEET PRIOR TO USE.

SOPREMA