



ALSAN 2K ZERO

Alsan 2K Zero Component A
Alsan 2K Zero Component B (white)

Order No. D30105
Order No. D30125



DESCRIPTION & APPLICATION

Soprema Alsan 2K ZERO is a highly flexible, high performance, watertight, puncture and UV resistant ready to use two-component polyurethane resin used in roofing and waterproofing liquid-applied membrane applications.

PRODUCT USES:

Alsan 2K Zero is combined with a patented polyester fleece fabric to form a monolithic, self-flashing and self-adhering reinforced waterproofing membrane for a variety of new, tear-off and recovery roofing and waterproofing applications. Alsan 2K Zero can also be applied without fleece reinforcement in recovery applications to form monolithic, self-flashing and self-adhering non-reinforced waterproofing membrane.

COLOR:

Alsan 2K Zero is available in White and Grey (see Product Data Sheet 619).

VOC:

Alsan 2K Zero maximum content 40.55 g/L as applied.

PACKAGING:

Alsan 2K Zero is supplied in two components - a six gallon can (holding three gallons of Component A) and a two gallon Component B.

STORAGE:

Shelf life: Both Component A and Component B have a shelf life of 12 months in their original unopened containers. Always store closed containers in cool, ventilated and dry location away from heat and oxidizing agents. Do not store in direct sunlight or in temperatures below 40°F (4°C) or above 77°F (25°C). Storing the containers above the recommended temperature may reduce the product's shelf life. Avoid direct sunlight and heat source when storing products on project site.

HANDLING:

Always use caution when handling the products. Do not smoke. Keep away from open flame, fire or any ignition source. Avoid skin and eye contact with this product. Cured product may be disposed of in standard landfills. Uncured product is considered a hazardous material and must be handled as such, in accordance with local, state and federal regulations. Workers must wear long sleeved shirts, long pants, work boots and use only butyl rubber or nitrile gloves when working with the product. Safety glasses with side shields are required for eye protection. Use of NOISH approved respirator is required if the airborne concentration exceeds recommended limits. For more information, refer to instruction on the label of the can and to relevant Material Safety Data Sheet (MSDS).

MIXING:

Pour the contents of Component B into the can marked Component A. Using a slow-speed (200 to 400 rpm) mechanical agitator, thoroughly mix the entire container until both components are completely combined.

SURFACE PREPARATION:

Refer to Soprema Alsan RS "Substrate Preparation & Priming Guidelines" for information and requirements. Contact Soprema Technical Department for recommendations regarding specific applications.

APPLICATION:

After mixing, apply resin to clean and prepared substrate at the required consumption using Soprema rollers, brushes or notched squeegee. The resin should be spread evenly onto the surface. See individual system specifications for specific guidelines regarding application of primer, membrane, topcoat and/or slip-resistant protective surfacing.



ALSAN 2K ZERO

PAGE 2

PDS-618
Rev 02/09

TECHNICAL INFORMATION

RECOMMENDED APPLICATION RATES*

	Reinforced system	Non-reinforced system
Primer	As specified	As specified
Base fleece coat	Min. 2.0 gal/sq (32 wet mils)	Min. 2.0 gals/sq. (32 wet mils)
Fleece embedment	Yes	No
Top coat	Min. 1.0 gal/sq (16 wet mils)	Min. 2.0 gals/sq. (32 wet mils)
Finish coat**	Min. 1.0 ga/sq (16 wet mils)	n/a

See recommendations for specific applications. Yields will vary depending upon substrate condition.

**Allow Top coat to cure a minimum of 16 hours prior to application of Finish coat.

SET TIMES AT AMBIENT TEMPERATURE OF 68°F (20°C)

	Reinforced system	Non-reinforced system
Pot life:	2 hours	2 hours
Rain proof after:	2 hours	2 hours
Set time / walked on / next layer:	12 hours	6 hours
Fully cured:	18 hours	8 hours

Set times and curing are dependent upon thickness of application and ambient temperature.

TEMPERATURE APPLICATION RANGES

Ambient temperature	40° to 95°F (4° to 35°C)	Substrate temperature	40° to 122°F (4° to 50°C)
----------------------------	--------------------------	------------------------------	---------------------------

Substrate must not exceed a maximum six percent moisture content and maximum 96% relative humidity.

PHYSICAL PROPERTIES


Property (as installed)	Test Method	Values/Units
UV resistant	ASTM D 4799-03	Yes
Membrane thickness	ASTM D 5147 Section 5	75 mils
Peak load @ 73 F, avg.	ASTM D 5147 Section 6	56 lbf/in
Elongation @ peak load, avg.	ASTM D 5147 Section 6	36%
Peak load @ 73 F, avg.	ASTM D 412 (dumbbell)	835 psi
Elongation @ peak load, avg.	ASTM D 412 (dumbbell)	40%
Shore A hardness, avg.	ASTM D 2240	73.2
Water absorbtion, (Method I) (24h @ 73 F [23 C])	ASTM D 570	3.12%
Water absorbtion, (Method II) (48h @ 122 F [50 C])	ASTM D 570	5.90%
Low temperature flexibility	ASTM D 5147 Section 11	< -25° C
Dimensional stability (maximum movement)	ASTM D 5147 Section 10	0.083%
Tear strength	ASTM D 5147	95 lbf
* Values based on fully reinforced 2K Zero at 4 gal/sq using Tietex Fleece T326		




ALSAN 2K ZERO PAGE 3

PDS-618
Rev 02/09

TECHNICAL INFORMATION - CONTINUED

	Alsan 2K Zero (unreinforced)		
		<u>Initial</u>	<u>Weathered</u>
	Solar Reflectance Thermal Emittance	0.88 0.86	Pending Pending
Rated Product ID 0772-0039 Licensed Manufacturer ID 0772 Classification Field applied coating			Cool Roof Rating Council ratings are determined for a fixed set of conditions and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building construction may vary. Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating normal procedures.

	Alsan 2K Zero (reinforced)		
		<u>Initial</u>	<u>Weathered</u>
	Solar Reflectance Thermal Emittance	0.89 0.84	Pending Pending
Rated Product ID 0772-0038 Licensed Manufacturer ID 0772 Classification Field applied coating			Cool Roof Rating Council ratings are determined for a fixed set of conditions and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building construction may vary. Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating normal procedures.