



# ALSAN RS 230 FIELD

Alsan RS 230 Field (Summer Formulation) Order No. L-RS020  
Alsan RS 230 Field (Winter Formulation) Order No. L-RS020W

## DESCRIPTION & APPLICATION

Alsan RS 230 Field is a high performance two-component rapid curing PMMA acrylic resin formulation used in Alsan RS cold liquid-applied membrane system applications.

### PRODUCT USES:

Alsan RS 230 Field resin is combined with fleece fabric to form a monolithic, self flashing and self-adhering reinforced field membrane designed for use in interior and exterior new, tear-off and recovery applications.

### COLOR:

Alsan RS 230 Field is available in Pebble Grey (RAL #7032) and Traffic White (RAL #9016, Order No. L-RS023S).

### VOC:

Alsan RS 230 Field (winter and summer formulation) maximum content 20.27 g/L.

### PACKAGING:

Alsan RS 230 Field resin (winter & summer formulation) is supplied in a 25-kg re-sealable container with locking ring.

### STORAGE:

Shelf life: 12 months in original unopened container. 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 32°F (0°C) or above 77°F (25°C). Storing the containers above the recommended temperature may reduce the product's shelf life. The resin may polymerize at temperatures above 140°F (60°C). 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:

Using a slow-speed (200 to 400 rpm) mechanical agitator, thoroughly mix the entire container of resin for two minutes before each use, and prior to pouring off resin into a second container if batch mixing. Catalyze only the amount of material that can be used within 10-15 minutes. Add pre-measured catalyst to the resin component, stir for two minutes and apply to substrate. Refer to Catalyst Dosages chart below for additional information.

### 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.



## TECHNICAL INFORMATION

| COVERAGE RATES            |                                     |                                     |
|---------------------------|-------------------------------------|-------------------------------------|
|                           | Standard membrane                   | Technical membrane*                 |
| Minimum total consumption | 0.28 kg/sf (3.0 kg/m <sup>2</sup> ) | 0.24 kg/sf (2.5 kg/m <sup>2</sup> ) |
| Base coat minimum         | 0.19 kg/sf (2.0 kg/m <sup>2</sup> ) | 0.19 kg/sf (2.0 kg/m <sup>2</sup> ) |
| Top coat minimum          | 0.09 kg/sf (1.0 kg/m <sup>2</sup> ) | 0.05 kg/sf (0.5 kg/m <sup>2</sup> ) |

\* Technical membrane used only in conjunction with system incorporating Alsan RS 233 Mortar over Alsan RS 230 liquid membrane. See recommendations for specific applications. Yields will vary depending upon substrate condition.

| TEMPERATURE APPLICATION RANGES |                         |                         |
|--------------------------------|-------------------------|-------------------------|
|                                | Ambient temperature     | Substrate temperature   |
| Summer formulation             | 37° - 95°F (3° - 35°C)  | 37° - 122°F (3° - 50°C) |
| Winter formulation             | 23° - 59°F (-5° - 15°C) | 23° - 59°F (-5° - 15°C) |

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

| CATALYST MIXING CHART |                                                                                         |      |             |                                                                                          |      |             |
|-----------------------|-----------------------------------------------------------------------------------------|------|-------------|------------------------------------------------------------------------------------------|------|-------------|
|                       | 4% Catalyst Activation                                                                  |      |             | 2% Catalyst Activation                                                                   |      |             |
|                       | 37°F to 59°F (3°C to 15°C) [Summer Grade]<br>23°F to 49°F (-5°C to 10°C) [Winter Grade] |      |             | 60°F to 95°F (15°C to 35°C) [Summer Grade]<br>50°F to 59°F (10°C to 15°C) [Winter Grade] |      |             |
| Resin Quantity        | kg                                                                                      | tbsp | 0.1 kg bags | kg                                                                                       | tbsp | 0.1 kg bags |
| 1.0 kg                | 0.04                                                                                    | 4    | n/a         | 0.02                                                                                     | 2    | n/a         |
| 25.0 kg               | 1                                                                                       | 100  | 10          | 0.5                                                                                      | 50   | 5           |

| SET TIMES AT GIVEN TEMPERATURE     |                                 |                                  |
|------------------------------------|---------------------------------|----------------------------------|
| Ambient temperature                | 32°F (0°C) [Winter Formulation] | 68°F (20°C) [Summer Formulation] |
| Pot life:                          | 20 minutes                      | 15 minutes                       |
| Rain proof after:                  | 45 minutes                      | 30 minutes                       |
| Set time / walked on / next layer: | 90 minutes                      | 60 minutes                       |
| Fully cured:                       | 6 hours                         | 3 hours                          |

Pot life is dependent on ambient temperatures and will be reduced at higher temperatures. Minimum set times are approximate and may vary. Actual set times and cure times should be established in the field, based on actual field conditions.



**TECHNICAL INFORMATION - CONTINUED**

| PHYSICAL PROPERTIES                         |                       |                        |
|---------------------------------------------|-----------------------|------------------------|
| Property (as installed)                     | Values / Units        | Test Method            |
| Membrane thickness                          | 115 mils (2.9 mm)     | ASTM D 5147 Section 5  |
| Peak load @ 73°F, avg.                      | 70 lbf/in (12.3 kN/m) | ASTM D 5147 Section 6  |
| Elongation @ peak load, avg.                | 42%                   | ASTM D 5147 Section 6  |
| Peak load @ 73°F, avg.                      | 90 lbf/in (15.8 kN/m) | ASTM D 412 (dumbbell)  |
| Elongation @ peak load, avg.                | 55%                   | ASTM D 412 (dumbbell)  |
| Shore A hardness, avg.                      | 81                    | ASTM D 2240            |
| Water absorption, (Method I) (24h @ 73°F)   | 0.41%                 | ASTM D 570             |
| Water absorption, (Method II) (48h @ 122°F) | 1.57%                 | ASTM D 570             |
| Low temperature flexibility                 | -13° F (-25°C)        | ASTM D 5147 Section 11 |
| Dimensional stability (maximum movement)    | -0.063%               | ASTM D 5147 Section 10 |
| Tear strength                               | 107 lbf (0.5 kN)      | ASTM D 5147 Section 7  |

Values based on reinforced Alsan RS Systems at a coverage rate of 3.3 kg/m<sup>2</sup>

|                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                       |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------|------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                  |                           | <u>Initial</u>        | <u>Weathered</u> |
|                                                                                                                                                                                                                                                                                                                                                                                                                  | Solar Reflectance         | 0.86                  | Pending          |
|                                                                                                                                                                                                                                                                                                                                                                                                                  | Thermal Emittance         | 0.89                  | Pending          |
|                                                                                                                                                                                                                                                                                                                                                                                                                  | Rated Product ID Number   | 0772- 0046            |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                  | Licensed Seller ID Number | 0772                  |                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                  | Classification            | Field-Applied Coating |                  |
| <p>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 performance may vary.</p> <p>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</p> |                           |                       |                  |

|                                          |                           |                          |
|------------------------------------------|---------------------------|--------------------------|
| CA Title 24 Compliant Initial/ Weathered | Reflectivity<br>0.86 / NA | Emmissivity<br>0.89 / NA |
|------------------------------------------|---------------------------|--------------------------|

| Solar Reflective Index(SRI) |           |
|-----------------------------|-----------|
| Initial                     | Weathered |
| 108                         | Pending   |