

DERBIFLASH RS 230 FIELD

DESCRIPTION

Derbiflash RS 230 Field resin is combined with fleece fabric to form a monolithic, self-flashing and self-adhering reinforced waterproofing membrane.

ADVANTAGES

- ▶ Available in a summer or winter grade
- ▶ UV stable, high solids, VOC compliant
- ▶ Rapid-setting and easy application
- ▶ Available in white or pebble grey

LIMITATIONS

Performance Roof Systems advises that adhesion/peel tests be performed prior to application for concrete, masonry and other substrates where surface conditions may vary. Contact Technical Services for applicable recommendations.

STORAGE & HANDLING

Store containers away from excessive heat and oxidizing agents. Containers should be stored in a cool, dry indoor environment at temperatures between 32-77°F. Avoid prolonged rooftop storage or direct sunlight. PROTECT FROM FREEZING. Approximate shelf life is 12 months from date of shipment when properly stored, sealed and unmixed.

MIXING INSTRUCTIONS

Using a slow-speed (200-400 rpm) mechanical agitator, thoroughly mix the entire container of resin for two minutes before use. Only catalyze the amount of material that can be used within 10 -15 minutes. Add the pre-measured catalyst to the resin, stir for two minutes and apply to substrate. The amount of catalyst required is determined by resin weight and ambient temperature. Please refer to the catalyst mixing chart on the back side of this data sheet.

APPLICATION

After mixing, apply resin to prepared substrate at the required consumption using a roller or brush. The resin should be applied evenly onto the surface using care not to spread too thin or pool in low areas.

Prior to application, refer to published specifications and approved details for complete application instructions. The applicator is responsible for ensuring conditions are appropriate to proceed with proper application method.

COVERAGE RATES *

| QUANTITY | COVERAGE |
|----------|-----------|
| 20 KG | ~70 SQ FT |

* Coverage rates are variable and dependent upon substrate and weather conditions.

ENERGY AND ENVIRONMENT

| PRODUCT | SOLAR REFLECTANCE ASTM C1549 | | THERMAL EMITTANCE ASTM E1371 | | SRI ASTM E1980 | |
|----------------------------------|---------------------------------|--------|---------------------------------|--------|-------------------|--------|
| | Initial | 3-Year | Initial | 3-Year | Initial | 3-Year |
| Derbiflash RS 230 Field White | 0.86 | 0.72 | 0.87 | 0.86 | 109 | 88 |



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PRODUCT MIXING & WORKING TIMES

| SUMMER FORMULATION | | WINTER FORMULATION | |
|---------------------|-----------|---------------------|----------|
| WORKING TEMPERATURE | PROPERTY | WORKING TEMPERATURE | PROPERTY |
| 50 - 95°F | Ambient | 23 - 68°F | |
| 50 - 122°F | Substrate | 23 - 68°F | |
| 50 - 86°F | Resin | 37 - 68°F | |

| WORKING TIMES* (at 68 °F) | PROPERTY | WORKING TIMES* (at 68 °F) |
|---------------------------|-------------|---------------------------|
| 15 - 20 minutes | Pot Life | 15 - 20 minutes |
| 30 - 45 minutes | Rain Proof | 45 - 60 minutes |
| 1 - 1.5 hours | Next Layer | 1 - 2 hours |
| 3 - 6 hours | Fully Cured | 5 hours |

*All working and cure times are approximate and may vary upon wind, humidity and ambient/surface temperatures.

| CATALYST RATES (per 20 KG of resin) | | PROPERTY | CATALYST RATES (per 20 KG of resin) | | |
|-------------------------------------|-----------|------------------|-------------------------------------|-----------|-----------|
| 50 - 67°F | 68 - 95°F | Ambient Temp | 23 - 36°F | 37 - 49°F | 50 - 68°F |
| 8 | 4 | Catalyst Packets | 12 | 8 | 4 |

*All working and cure times are approximate and may vary upon wind, humidity and ambient/surface temperatures.

TECHNICAL INFORMATION

Derbiflash RS 230 Flash Results*

| PROPERTY | MD | XMD | ASTM |
|---|------|------|-------|
| Peak Load @ 73.4°F control; lbf/in | 60 | 55 | D5147 |
| Elongation @ 73.4°F control; % | 55 | 85 | D5147 |
| Peak Load @ 73.4°F post heat aging; lbf/in | 65 | 70 | D5147 |
| Elongation @ 73.4°F post heat aging; % | 55 | 50 | D5147 |
| Peak Load @ 73.4°F post acc. weathering; lbf/in | 70 | 70 | D5147 |
| Elongation @ 73.4°F post acc. weathering; % | 70 | 60 | D5147 |
| Peak Load @ 0°F; lbf/in | 130 | 110 | D5147 |
| Elongation @ 0°F; % | 65 | 85 | D5147 |
| Tear Resistance @ 73.4°F; lbf | 75 | 60 | D5147 |
| Dimensional Stability; % | 0 | 0.1 | D5147 |
| Low Temperature Flexibility@ 32°F | Pass | Pass | D5147 |

| PROPERTY | MINIMUM | ASTM |
|---------------------------------|-----------|--------------|
| Static Puncture Resistance; lbf | Pass 56 | D5602 |
| Shore A Hardness | 87 | D2240 |
| Water Absorption; % | 0.9 | D570 @ 212°F |
| Water Vapor Permeance; perms | 0.3 | E96 |
| Low Temperature Crack Bridging | No cracks | C1305 |
| Self-Ignition; °F | 752 | D1929 |
| Smoke Density Index | 150 | E84 |
| Rate of Burning; in/min | 0.9 | C635 |

* All values shown are nominal and subject to normal manufacturing tolerances.

