

CrysticROOF

REPAIR

TECHNICAL DATA SHEET



INTRODUCTION

CrysticROOF Repair is a thixotropic and fiber-reinforced, one component polyurethane liquid membrane used for repairing damaged GRP roofs.

CrysticROOF Repair is for **professional use only**. It should only be used by appropriately trained professional and industrial users.

PRODUCT CHARACTERISTICS

Due to its unique formulation, CrysticROOF Repair cures rapidly to form a bubble free thick layer membrane with excellent mechanical properties. CrysticROOF Repair is ideal for use during the winter months or in climates with relatively low humidity.

APPLICATIONS

CrysticROOF Repair can be applied using a brush or roller.

FEATURES AND BENEFITS

- No reinforcement necessary in flashing points.
- Fast curing. Skin formation time of 2 hours.
- Bubble and defect free membrane.
- Excellent weather and UV resistance.
- Excellent thermal resistance, the product never turns soft. Recommended service temperature 80°C, max shock temperature 200°C.
- Resistance in the cold: The film remains elastic even down to -40°C.
- Excellent mechanical properties, high tensile and tear strength, high abrasion resistance.
- Good chemical resistance.

TYPICAL PROPERTIES - LIQUID RESIN

| Property | Unit | Typical Values |
|---------------------------------|-------------------|----------------|
| Viscosity at 25°C | cP | 5000 - 7000 |
| Density at 20°C | g/cm ³ | 1.4 - 1.5 |
| Flash Point | °C | 42 |
| Tack Free Time at 25°C & 55% RH | hours | 2 - 3 |
| Recoat time | hours | 6 - 48 |

TYPICAL PROPERTIES - FULLY CURED RESIN

| Property | Unit | Typical Values |
|---|--|------------------------|
| Service Temperature | °C | -40 - 80 |
| Max. Temperature Short Time (shock) | °C | 200 |
| Hardness | Shore A | 70 |
| Tensile Strength at Break at 23°C | kg/cm ² (N/mm ²) | 80 (8.5) |
| Percent Elongation at 23°C | % | >200 |
| QUV Accelerated Weathering Test (4hr UV, at 60°C UVB-Lamps and 4 hr condensation at 50°C) | - | Passed (2000 hours) |

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STORAGE AND SHELF LIFE

CrysticROOF Repair should be stored between 5°C and 25°C in the original, unopened container in a dry, well ventilated place. Protect from freezing and direct sunlight.

Stability from date of manufacture when stored in accordance with storage recommendations is 12 months.

Once opened, use as soon as possible.

PACKAGING

CrysticROOF Repair is supplied in 15kg containers.

HEALTH AND SAFETY

Please see separate Safety Data Sheet (SDS).

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