

Shieldprotect GRC

Single-Component, Highly Elastic Acrylic Protective Coating



MICSHIELD®

Description

Shieldprotect GRC is a high-performance, ready-to-use flexible acrylic protective coating based on self-crosslinking acrylic resin technology, formulated to provide a durable, elastic coating with a uniform matt finish and excellent color stability. It is designed to accommodate minor substrate movement and micro-cracking while providing long-term protection against moisture and carbon dioxide ingress. Available in a wide range of colors.

Uses

- Suitable for various substrates such as GRC panels, concrete, cement boards, plasters, renders, blocks and surfaces prone to micro-cracking and thermal movement.
- Interior and exterior applications.

Characteristics / Advantages

- Easy to apply and clean.
- Water-based and non-toxic.
- Low dirt pickup.
- High elasticity across a wide range of temperatures.
- Bridges hairline cracks up to 0.5 mm.
- Excellent color stability.
- Excellent resistance to CO₂ penetration, reducing the risk of reinforcement corrosion.
- High resistance to UV and weathering conditions.
- Vapor permeable; allows breathability of the substrate, water vapor is allowed to escape structures.

Consumption

Approximately 0.20 – 0.25 L/m² per two-coat application, but this may vary due to site wastage, substrate condition/profile, and application thickness

Typical Properties

Color / Appearance	Colored liquid
Specific Gravity (23 °C)	1.35 ± 0.10
Solid content by weight	65%
Wet Film Thickness	100 – 125 µm per coat
Overcoating Time (@ 20 ± 2 °C)	3 hours

Packaging

Shieldprotect GRC is supplied in 25 kg buckets.

Shelf Life and Storage

Shieldprotect GRC has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, at temperatures between +5°C and +35°C protected from direct sunlight, heat, and moisture.

Shelf life may be reduced if the recommended storage conditions are not followed.

Safety Instructions

Avoid contact with the eyes and skin. In case of direct contact with the skin, wash the affected area immediately with water for several minutes. If it comes into contact with the eyes, rinse immediately with lukewarm water for at least 15 minutes and get medical advice or treatment if any emergency warning signs appear. For further information, refer to the Material Safety Data Sheet.



Application Instructions

1. Surface Preparation and Priming

The GRC substrate must be sound and free from dust, loose materials, surface contamination, and materials that may reduce bond or prevent adhesion. Hairline cracks, and voids should be repaired using **Shieldputty GRC**.

GRC substrates must be fully cured prior to application, and an on-site adhesion test should be conducted before full application.

Protect adjacent areas that are not to be coated by suitable means. Apply **Shieldprime AC** to prime and seal prepared substrates prior to the application of **Shieldprotect GRC**.

Substrate temperature must be between +5°C and +35°C.

2. Mixing

Shieldprotect GRC should be thoroughly stirred prior to application, to ensure a homogenous mixture.

3. Application

Shieldprotect GRC is applied to the prepared substrate by brush, short-hair roller, or airless spray.

For optimum performance, apply **Shieldprotect GRC** in two coats at a thickness of 100 – 125 µm per coat, allowing the first coat to dry for at least 3 hours before applying the second coat. If required, the first coat may be diluted with up to 10% of clean water.

Maintain a wet edge during application to ensure a uniform appearance and avoid lap marks or color variation.

4. Cleaning

All mixing and application equipment should be cleaned immediately with clean water. Hardened material should be mechanically removed.

5. Curing

Curing is not normally necessary but freshly applied material should be protected from rain, until fully dry, to ensure optimum performance.

Limitations

- Do not apply the product if the ambient temperature is less than 5°C.
- Hot weather practices should be adopted during application and curing if the temperature is above 35°C. In hot conditions, store the material in a cool environment prior to application.
- To ensure uniform color, use material with the same batch number. If using different batch numbers, mix their contents together before use.
- Avoid application under direct sunlight, strong wind, or when rain is expected.

Technical Support

Refer to technical information, method statement, or technical support team for any inquiry.

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