DANOFLEX FLEXIBLE GRP RESIN

20kg drum of Flexible GRP resin in dark grey. Coverage: 7.4 - 10.6m^2.

DANOFLEX GRP Resin is designed for use as the liquid resin component of the DANOFLEX GRP waterproofing system. The resin itself is a flexible hybrid Polyester resin that has been cured with a specialised Peroxide catalyst, offering optimum curing across a wide range of application conditions.

Product Description

- Flexible Polyester Resin: Excellent crack resistance and water-resistant properties.
- Excellent Adhesive Properties: Can be applied over an existing roof membrane without the need to remove and re-board. Contact our Technical Team for specific recommendations.
- Single Resin Product: No need to stock separate basecoat and topcoat.
- Dark Grey: Self-coloured, meaning there's no need to stock pigments.
- Over-coatable: Tolerant of short completion delays and easily repairable.
- Reduced Styrene Emission: Lower odours.
- Pre-accelerated: All year-round fast curing.
- Low Viscosity/Fast Wetting: Rapid wetting of the glass fibres and early conforming to detail work. Can be applied using only a fluffy roller.
- Thixotropic: Prevents drainage/sagging from vertical surfaces.
- Product Code: 320036

Catalysing

For most conditions DANOFLEX Powder Catalyst should be added between 3-4% (see instructions for use for % versus volume addition charts). For very cold temperatures 5% is typica and for very warm conditions 2.5% is typical. Adjust the catalyst level up or down to obtain the desired pot life and cure. Never add less than 2.5% or more than 5% as full cured properties will not be achieved. In very cold conditions (1-10°C) DANOFLEX Winter Accelerator can be used to normalise pot life and laminate curing despite the temperature. Check with our Technical Team for specific details.

Typical Liquid Resin Properties

Viscosity at 25°C (Brookfield) Spl 4, 6 RPM	6200 MPas
Viscosity at 25°C (Brookfield) Spl 4, 60 RPM	2000 MPas
Thixotropic Index	3.1
Gel Time (25°C, 3.75% Catalyst added)	18 mins
Specific Gravity at 25°C	1.40

Flashpoint	32°C
Shelf Life (unopened and stored at <25°C	12 months

Typical Cured Resin Properties

Test	Method	Unit	Un-reinforced Resin	Reinforced System (1)
Tensile Strength	Iso 527	MPa	5	27
Tensile Modulus	Iso 527	MPa	22	1370
Elongation At Break	Iso 527	%	22	2
Shore D Hardness	ASTM D2240	SD	40	60

* (1) 1 x 225 g/m2 CSM, 1 litre / m2 Resin used in base layer plus 0.5 litres/ m2 as topcoat. Catalysed with 3.75% DANOFLEX Catalyst and post-cured for 16 hours at 45°C.

Storage

Store in closed containers, below 25°C in a well-ventilated place. Storage at or significant exposure to higher temperatures may cause gelation in the product or loss of quality. Avoid sources of ignition.

Recommendations

Read the full DANOFLEX application instructions before use. Wear PPE in line with the Safety Data Sheet and observe all safety instructions.

- Protect the containers from extremes of temperature in storage and especially just before use.
- Do not begin work in wet conditions or if rain is likely.
- Use only above 5°C air and deck temperature (1°C with Winter Accelerator) and below 30°C air temperature.
- Ensure substrate is 100% dry before application.
- For best results, apply in cool overcast conditions – avoid direct sunlight if possible.
- Always stir well in the original container before use or decanting.
- Add DANOFLEX Powder Catalyst between 2-4% depending on conditions and desired pot life. Follow the addition methods outlined in the Instructions for Use.
- Intended application rate is 0.85 litre/m^2 when using 225gsm Glassflex reinforcement on a flat substrate (higher rate may be required over uneven substrates. Plus 0.5 litre/m^2 applied as topcoat.
- Apply by synthetic roller.
- Clean tools with acetone after use.

Instructions for Use

See Application Manual.

Disclaimer

The information contained in this document and any other advice provided, are given in good faith, based on Danosa UK Limited's current knowledge and experience when products are properly stored, handled, and applied, in normal situations and in accordance with the recommendations of Danosa UK. The information applies only to the application(s) and the product(s) to which reference is expressly made. In case of changes in the parameters of the application, or in case of a different application, consult the Danosa UK technical department before using the products. The information contained herein does not exonerate the responsibility of the user to test the products for the application and intended use, as well as their correct application in accordance with current legal regulations. Orders are accepted in accordance with the terms of our current general sales conditions. Danosa UK limited reserves the right to modify, without prior notice, the data reflected in this documentation.