



TECHNICAL DATA SHEET – GRFlex Flexible Roofing System

Product Overview

GRFlex is a next-generation flexible roofing system designed for fast, durable, and watertight protection across a wide range of flat and low-pitch roof substrates. The system combines advanced technology with reinforcement matting to deliver a tough yet flexible waterproof membrane suitable for both new build and refurbishment applications.

System Components			
Layer	Product	Application Rate	Reinforcement
BaseCoat	GRFlex Base	1.5kg/m ²	Fully reinforced with 150gsm Reinforcement Matting
TopCoat	GRFlex Top	0.5kg/m ²	

Key Features

- Fast-curing system – typically dries **within 1 hour** (at 20°C)
- Self – priming so no primer needed.
- Faster Application times
- 200% Elasticity
- Flexible formulation – ideal for roofs subject to movement
- Cold-applied, no hot works required
- Seamless and fully bonded waterproof finish
- Suitable for a wide range of substrates including:
 - OSB3, Felt, Asphalt, Existing Coatings, Existing GRP, Most Metals, Brickwork, Single-Ply
- UV and weather resistant topcoat
- Easy to repair and maintain



Technical Data

Property	Value / Description
System Type	Flexible liquid-applied roofing membrane
Application Temperature	-5°C to +35°C
Drying Time	Touch dry within 1 hour (20°C)
Recoat Time	Approx. 60 minutes (depending on temperature)
Full Cure	24 hours
Reinforcement	150 gsm glass fibre matting
Colour	Dark grey (standard)
Coverage Rate	Approx. 2kg/m ² total system (base + topcoat)
Activator Ratio	Typically, 1–4% (temperature dependent)
Service Life	Expected 20+ years (when installed per instructions)
Application Method	Short piled roller or brush

Surface Preparation

- Substrate must be clean, dry, and free from contaminants.
- Repair cracks or defects prior to application.
- Ensure the substrate is sound and suitable to over coat.
- Reinforcement matting must be fully embedded into the wet GRFlex Base layer.



Powdered Activator

GRFlex Base and Topcoat are both activated using a **Powdered Activator** supplied in 300 g bottles. The activator controls the curing time and is adjusted according to ambient temperature conditions.

Parameter	Specification / Guidance
Activator Type	Powdered curing agent
Recommended Dosage	1–4% by weight of GRFlex resin
Standard Ratio	One 300 g bottle per 15 kg tin ($\approx 2\%$)
Summer Application	1 bottle per 15 kg tin ($\approx 1\text{--}2\%$)
Winter Application	2 bottles per 15 kg tin ($\approx 3\text{--}4\%$)
Mixing	Add directly to GRFlex Base or Topcoat and mix thoroughly until uniform
Notes	Higher dosages accelerate cure; lower dosages extend working time

Application Procedure

1. Mix GRFlex Base with Activator as per ambient temperature. Recommended 1 bottle during the summer and 2 bottles in the winter months.
2. Apply GRFlex Base evenly at **1.5 kg/m²**, embedding **150 g/m² reinforcement matting**.
3. Allow to cure (approx. 1 hour). Weather dependant.
4. Ensure the base is snagged, all pinholes are filled, and all wicks are sanded down before applying the GRFlex Top.
5. Apply GRFlex Top at **0.5 kg/m²**
6. Inspect for full coverage and uniform finish.



Packaging & Storage		
Component	Pack Size	Storage
GRFlex Base	15kg	Store in a cool, dry place away from direct sunlight between 5°C & 20°C
GRFlex Top	15kg	Keep tightly sealed when not in use
Activator	300g Bottle	Store separately in a vented, upright container

Health & Safety

- Use in well-ventilated areas.
- Wear appropriate PPE including gloves, goggles, and respirator.
- Avoid contact with skin and eyes.
- Refer to GRFlex Safety Data Sheet (MSDS) for full details.
- **Guarantee**
- When installed in accordance with GRFlex application guidelines, the GRFlex system is covered by a **20-year materials guarantee**.