

TekShield GRP System – Application & Coverage Guide

2-Page Installer Edition (Standard & FR Flexi Topcoat Versions)

1. System Overview

TekShield GRP System is a professional-grade, cold-applied two-layer roofing system using TekShield Roofing Resin with either TekShield Standard Topcoat or TekShield FR Flexi Topcoat. The FR Flexi version offers enhanced flexibility, crack resistance, and BROOF(t4) fire performance. The system provides seamless, UV-stable, and long-lasting protection for new or refurbished flat roofs.

Key Benefits

- Two-layer GRP system (Resin + Topcoat)
- Fire rated to EN 1187 Test 4 – BROOF(t4)
- UV and weather resistant
- Low Styrene Emission (LSE) formula
- Cold-applied – no hot works required
- Compatible with OSB3, concrete, asphalt, and GRP surfaces

2. Product Range & Components

Product	Description	Pack Sizes	Key Notes
TekShield Roofing Resin	Virgin polyester resin with colour-change cure indicator.	10kg / 20kg	Low drainage, medium cure, LSE.
TekShield Standard Topcoat	UV-stable, smooth finish, RAL 7011.	10kg / 20kg	For standard installations.
TekShield FR Flexi Topcoat	Flexible, fire-rated topcoat for BROOF(t4).	10kg / 20kg	Improved crack resistance.
TekShield Catalyst	Standard or Winter MEKP catalyst.	1kg / 5kg	Use 1–4% depending on temperature.
TekShield Acetone Cleaner	Solvent cleaner for tools and rollers.	1L / 5L / 25L	Clean before curing.

3. Deck Preparation & Trim Installation

Use 18mm OSB3 tongue & groove boards laid 90° to joists. Fix using 63mm galvanised ring-shank nails every 200mm. Leave 5mm gaps between boards and 25mm expansion gaps at abutments. Use fillet trims (D260) at wall junctions, drip trims (A170/200) for perimeters, and simulated lead flashing (C100) rebated 35mm into mortar joints. Bond trim joints with resin and glassfibre tape for waterproof continuity.

4. Catalyst Addition Chart

Temp (°C)	Catalyst Type	%	1kg	2kg	5kg	10kg
0–5	Winter	3%	30ml	60ml	150ml	300ml
6–11	Winter	2%	20ml	40ml	100ml	200ml
12–19	Standard	3%	30ml	60ml	150ml	300ml
20–27	Standard	2%	20ml	40ml	100ml	200ml
28–35	Standard	1%	10ml	20ml	50ml	100ml

5. Coverage & Material Usage

Approximate TekShield Resin and Topcoat coverage rates by CSM weight and surface texture. Coverage varies depending on application method and substrate condition.

CSM Weight	Surface Type	Resin (kg/m ²)	Topcoat (kg/m ²)	5m ² Resin	5m ² Topcoat
300g	OSB3	0.9	0.75	4.5kg	3.75kg
450g	OSB3	1.1	0.75	5.5kg	3.75kg
600g	OSB3	1.5	0.75	7.5kg	3.75kg