TESCO TUFF FLEXIBLE GRP RESIN
PRODUCT DATA SHEET

Product & Application Tools





Product Name	Colour	Unit Size	Approximate Coverage
FLEXIBLE GRP Resin	Light Grey	15KG	11 - 16 m²

Description

The FLEXIBLE GRP System is a cold liquid applied membrane fully reinforced with CHOPPED STRAND MAT for use in new and recovery roofing and waterproofing applications. The FLEXIBLE GRP System offers the versatility of a liquid applied membrane with exceptional performance across a broad range of roofing and waterproofing applications.

Accessory Components

FLEXIBLE GRP resin requires Granule Hardener for curing and optional low temperature accelerator and high temperature inhibitor for low and high temperature applications respectively.

Code	Item	Pack Size
102003	Granule Hardener	1kg
162303	FLEXIBLE GRP Accelerator	794g
162205	FLEXIBLE GRP High Temp Inhibitor	210g

Features

- Flexible polyester resin
- Curing adjusted by grade & additives
- Tough, durable, & UV resistant

Storage Recommendations

Always store closed containers in a cool, ventilated and dry location away from heat and oxidizing agents. Do not store in direct sunlight or in temperatures at or below 0°C or above 25°C. Approximate maximum shelf life is 12 months when properly stored, sealed, and unmixed.

Limitations

Ensure temperature and surfaces are within the application temperature guidelines.

Recommended minimum cure and maximum re-coat times should always be followed. When the FLEXIBLE GRP System is left exposed to the elements for extended periods or has been contaminated, cleaning or repair may be required before applying subsequent coats or layers.

Mixing & Application

Before applying FLEXIBLE GRP resin, ensure that substrates are prepared and primed correctly in accordance with the relevant application recommendations. Mask off the designated work area.

In very hot conditions and particularly when carrying out detailing work, it is recommended that smaller mixes are considered to allow sufficient time to apply. Please note never to go below the minimum recommended catalyst addition rates.

Stir the FLEXIBLE GRP Resin thoroughly in the original container, mixing from top to bottom, for two minutes before use. Granule Hardener is added to resin in the form of level scoops using the scoop provided. Refer to the catalyst information found on this TDS.

After mixing, apply FLEXIBLE GRP resin to substrate at the required coverage rate with reinforcement at the recommended consumption using a roller or brush if access is restricted. Ensure an even, uniform application across all surfaces.

Safety & Handling

Please refer to the relevant Safety Data Sheet (SDS) prior to handling or use. Use materials in strict accordance with published recommendations. Dispose of waste materials in accordance with local regulations.

Technical Assistance

For further information, please contact Tuff Technical Services on 01977 680250. More information can also be found at www.tuffstuff.co.uk

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Application Quick Facts						
Unit Size L	Unit Coverage[1] m^2	Ambient Temperature[2]	Substrate Temperature[2]	Rain Proof & Pot Life[3]	Next Layer Minimum[3]	Next Layer Maximum[3]
15	10 - 15	1° - 30°C	1° - 40°C	10 – 20 minutes	40 – 60 minutes	7 days

Notes:
1. Includes base & top coats. Coverage is approximate and may be affected by surface-profile.
2. Ensure all materials and substrates remain above at least 3°C above dew point temperature with a maximum 85% relative humidity.
3. Pot life, rain proof, working, and cure times are approximate and may vary depending on sun exposure, wind, humidity, as well as the ambient, substrate, and resin temperatures at time of application.

Approximate Coverage Rates (by volume)		
Substrate Profile	Basecoat* L/m^2	Topcoat L/m^2
Smooth	0.9 – 1.2	0.5
Rough	1.2 – 1.7	

***Note:** Basecoat must be applied with Resology EB CSM reinforcement. Approximate coverage rates above reflect application using CHOPPED STRAND MAT fiberglass mat reinforcement.

Physical Properties	
Description	Property
Colour	Grey
Density	1.3845 - 1.455
Viscosity (cps) @ 25°C & 60 RPM	1000
Flash Point °C	32

Note: Data represented above are average values unless noted otherwise.

Catalyst & Additive Mixing Chart					
Temperature Range	**1 - 4°C**	**5 - 9°C**	**10 - 19°C**	**20 - 24°C**	**25 - 30°C**
Catalyst Addition Rate	**4%**	**4%**	**3%**	**2%**	**2%**
Additive	Accelerator Mandatory	Accelerator Optional	N/A	N/A	Inhibitor Optional

Amount of FLEXIBLE GRP Resin Liters	Number of Catalyst Scoops				
1	4	4	3	2	2
5	20	20	15	10	10
10	40	40	30	20	20
15	60	60	45	30	30

IMPORTANT: The temperature ranges and catalyst addition shown are to be used as a guide. Catalyst levels may be adjusted up or down as required to suite prevailing conditions but should NOT go below the minimum recommended catalyst addition rates. Tested pot life before starting application. In very hot conditions and particularly when performing detailing work, smaller batch mixes are recommended to allow sufficient application time.