



GRP multi surface overlay



CROMAR (IIII)

INTRODUCTION

CROMAR FLEXIGLASS PRIMER-ENCAPSULATING OVERLAY SYSTEM IS A REVOLUTIONARY ADDITION TO THE CROMAR RANGE OF LIQUID APPLIED ROOFING PRODUCTS. DESIGNED TO WORK ON A VARIETY OF EXISTING ROOF SURFACES, PROVIDING A HARD WEARING AND RAPID CURING SOLUTION.

BENEFITS:

STYRENE FREE

OVERLAY RESIN SYSTEM

HIGH FLEX RESIN PROPERTIES

RAPID CURE SYSTEM

APPLICATIONS:

ROOFING FELT

ASPHALT

SINGLE PLY MEMBRANES

METALS

EXISTING LIQUID APPLIED SYSTEMS

TRAINING

Merchant site training is available. See your distributor or Cromar website for details.

Training is always recommended before installing a Flexiglass roof.

PRIMARY COMPONENTS

FLEXIGLASS

20kg.

FLEXIGLASS ENCAPSULATING PRIMER

5kg.

FLEXIGLASS CATALYST

1kg and 5kg.

CHOPPED STRAND MATTING

225qsm.

GRP EDGE TRIMS

Pre-formed in 3m lengths.

ANCILLARY COMPONENTS

ACETONE

For Trim and when required preparation of primer and Flexiglass surface.

TRIM ADHESIVE

For ensuring correct fixing of trims.

FLEXI TEX SEAM TAPE

For bandaging trim to roof, cracks or splits in roofing material.

APPLICATION TOOLS

APPLICATION ROLLERS

(Frame and sleeve) 3",7" and 9" wide for applying primer and Flexiglass resins (replacement sleeves available).

LAMINATING BRUSHES

1", 2"and 4" wide for application of primer, Flexiglass and moulding to shape in difficult to access areas.

Also useful for Flexiglass detailing such as bottom lip of trims.

MIXING BUCKETS

For measuring primer and Flexiglass, mixing in Catalyst and transferring to roof surface.

DISPOSABLE NITRILE GLOVES

To protect hands when applying resins.



ASSESSING THE ROOF

Is the roof viable for an overlay system?

- The roof must be sound and stable.
- Any movement of the substrate will need to be investigated and rectified.
- No ponding water.
- Not all liquid coatings can be overlayed succesfully, an adhesion test must be undertaken.

For technical queries please contact us on: 01977 663 133 for advice.

PREPARATION

Repair cracks, splits or damaged areas in the substrate.
The roof should be dry, free from dirt, moss, vegetation, and loose material/chippings.

A moss & mould remover should be used to clean the roof, if moss and vegetation are present.

It would be advisable to carry out an adhesion test irrespective of the surface to be covered.

This would test the adhesion of the primer to the substrate.

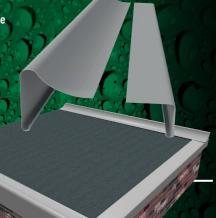


TRIMS (AS REQUIRED)

When doing detail work, corners, joints, bandaging etc, the following process is recommended.

Detail work; Wet out the required pieces of 225g matting prior to offering into place and forming around or into the area to be covered.

Bandaging; Apply Flexiglass resin to the trim and primed roof area, roll out the bandage, then use application roller to draw Flexiglass resin through the bandage, then apply 2nd coat of Flexiglass resin until the matting has wetted out.



EXISTING ABUTMENTS AND CURBS (AS REQUIRED)

Trims should be added to existing curbs and abutments, with flashing fitted after the Flexiglass has cured.





5 -10 -15 -10°C 15°C 20°C 5% 4% 3% 2% Pump Pump Pump Pump Strokes 30g (Approx) Strokes 30g (Approx) Strokes 30g (Approx) Strokes 30g (Approx) 5kg 8 6 3 10kg 15 12 9 6 15kg 22 17 13 9

Required for primer & Flexiglass application

CATALYST RATES

Recommended catalyst addition rate based on temperature range.







ENCAPSULATING PRIMER
200-500 g/m²
Dependent on substrate



1ST LAYER OF FLEXIGLASS 800-1000 g/m² Dependent on substrate





3RD LAYER OF FLEXIGLASS 500 g/m² Dependent on substrate

MATERIAL QUANTITY GUIDE

	D.					EI.				0.1.1	101:			20.1/
Primer					Flexiglass					Catalyst Calc is based on Rough & 20 Year				
Root Area	Smooth	Medi- um	Rough		Roof Area	10 Year	20 Year	CSM		Roof Area	5%	4%	3%	2%
	3,37		1 3		100)5/			Temp	5 - 10°C	10 - 15°C	15 - 20°C	20 - 25°C
1m²	200g	300g	500g		1m²	1.5kg	2kg	225kg		296				
5m²	1kg	1.5kg	2.5kg	d	5m²	7.5kg	10kg	1.125kg			250			
10m	² 2kg	3kg	5kg		10m²	15kg	20kg	2.25kg	3	10m²			1kg	1.25kg
15m	² 3kg	4.5kg	7.5kg		15m²	22.5kg	30kg	3.375kg		15m²		1.125kg	1.5kg	1.875kg
20m	² 4kg	6kg	10kg	80	20m²	20kg	40kg	4.5kg		20m²	1kg	1.5kg	2kg	2.5kg
25m	² 5kg	7.5kg	12.5kg		25m²	37.5kg	50kg	5.625kg	S	25m²	1.25kg	1.875kg	2.5kg	3.125kg
30m	² 6kg	9kg	15kg		30m²	45kg	60kg	6.75kg		30m²	1.5kg	2.25kg	3kg	3.75kg
40m	² 8kg	12kg	20kg		40m²	60kg	80kg	9kg	1	40m²	2kg	3kg	4kg	5kg
50m	² 10kg	15kg	25kg	100	50m²	75kg	100kg	11.25kg		50m²	3kg	4.5kg	6kg	6.25kg
70m	² 14kg	21kg	35kg	1	70m²	105kg	140kg	15.75kg		70m²	3.5kg	5.25kg	7kg	8.75kg
100m	1 ² 20kg	30kg	50kg	3	100m²	150kg	200kg	22.5kg	1	100m²	5kg	7.5kg	10kg	12.5kg

HEALTH AND SAFETY - MATERIALS HANDLING

When mixing/applying Flexiglass use:

- Hand protection (Nitrile gloves)
- Respiratory protection (dust mask)
- Eye protection (protective goggles/glasses) Additionally, we recommend that eyewash liquid (saline solution) is available in the event that resin splashes into eyes.
 If primer or Flexiglass splashes in the eyes, irrigate thoroughly with eyewash liquid or fresh water and consult a medical professional if irritation persists.
- Refer to HSG 33



APPLICATION

- PRIMER APPLICATION

It is important that the products are mechanically stirred in the tin, prior to pouring into mixing buckets.

Add the required Flexiglass catalyst (after shaking vigorously) and again stir thoroughly for a minimum of 2 minutes using a mixing paddle.

Once catalysed the Flexiglass primer should be applied with a roller or brush at the recommended coverage ratio 200-500g/m², dependent on substrate. Once the primer has cured and is trafficable, the roof should be inspected for defects.





FLEXIGLASS APPLICATION

Once the primer is fully cured Flexiglass Resin should be mixed with the Catalyst (according to the rates on the chart opposite), and then applied at an overall coverage rate of 1200g - 1500g/m² to the clean and dry surface within the recommended temperature range.

- Flexiglass resin is applied to the primed surface using the coverage rates of 800-1000g/m².
- A layer of Flexiglass 225gsm matting is then rolled onto the flexiglass base layer and consolidated using the application roller to help draw the base Flexiglass resin through the matting.
- The remaining Flexiglass resin should then be applied to this consolidated surface at a coverage ratio of, 400 - 500g/m²

Once the Flexiglass has cured and is trafficable the roof should be inspected for defects. If any pin holes or sparsely covered areas are found, apply more Flexiglass to the affected areas.







For the 20 year warranty an additional layer of Flexiglass resin, mixed with Catalyst should be applied at a rate of 500g/m² (no additional matting required).



Trouble Shooting Guide

Issue	Cause	Corrective Action				
Rapid cure of resin on application.	Substrate or air temperature are outside of recommended guidelines.	Check catalyst and temperature chart, also reduce amount of resin being mixed.				
Under cure or resin.	Catalyst and/or temperature level too low.	Check catalyst and temperature chart, and adjust mix.				
Delamination between substrate and laminate.	Encapsulating primer not used prior to Flexiglass resin.	Must use primer to ensure good bond.				
Delamination between substrate and laminate.	Substrates loose debris not removed, or a wet / damp surface.	Remove loose debris and make sure surface is dry.				
Pitting of the membrane.	The resin has been subject to rain before it has cured.	If pitting is minor and the surface has cured, it can be overcoated.				
Pitting of first resin and laminate, or looks dry with pinholes.	Not enough resin used to wet out the 225gsm glass fibre.	Repeat process using the correct resin to glass ratio, 800/1000g/m²				
Second coat flecking or peeling away from the first application.	First coat has got wet or damp prior to second coat application.	Scrape away second coat, abrade, use acetone wipe and relay the complete system.				
Cracking and peeling of resin.	Used as a flow coat only with no glass.	Must be used with glass 225gsm with even resin distribution either side. Scrape off loose resin and abrade, then use full system.				
Cracking and peeling of resin.	Second coat applied outside of recom- mended maximum delay time, ie over 7days.	Scrape away second coat, abrade, use acetone wipe and relay the complete system.				
Resin separation, patchy.	Insufficient mixing prior to application.	Make sure resin is properly mixed prior to use.				
Discolouration of primer.	Bitumen leaching due to lack of primer.	Performance of primer is not affected, if aesthetics are a problem then re-apply once cured.				
Resin splashes on adjacent surfaces.	Poor preparation.	Tape high risk area that could get splashed, use a splash guard on the roller. Use acetone wipes to clear splashes of resin immediately, if cured then scrape off, taking care not to cause further damage.				

