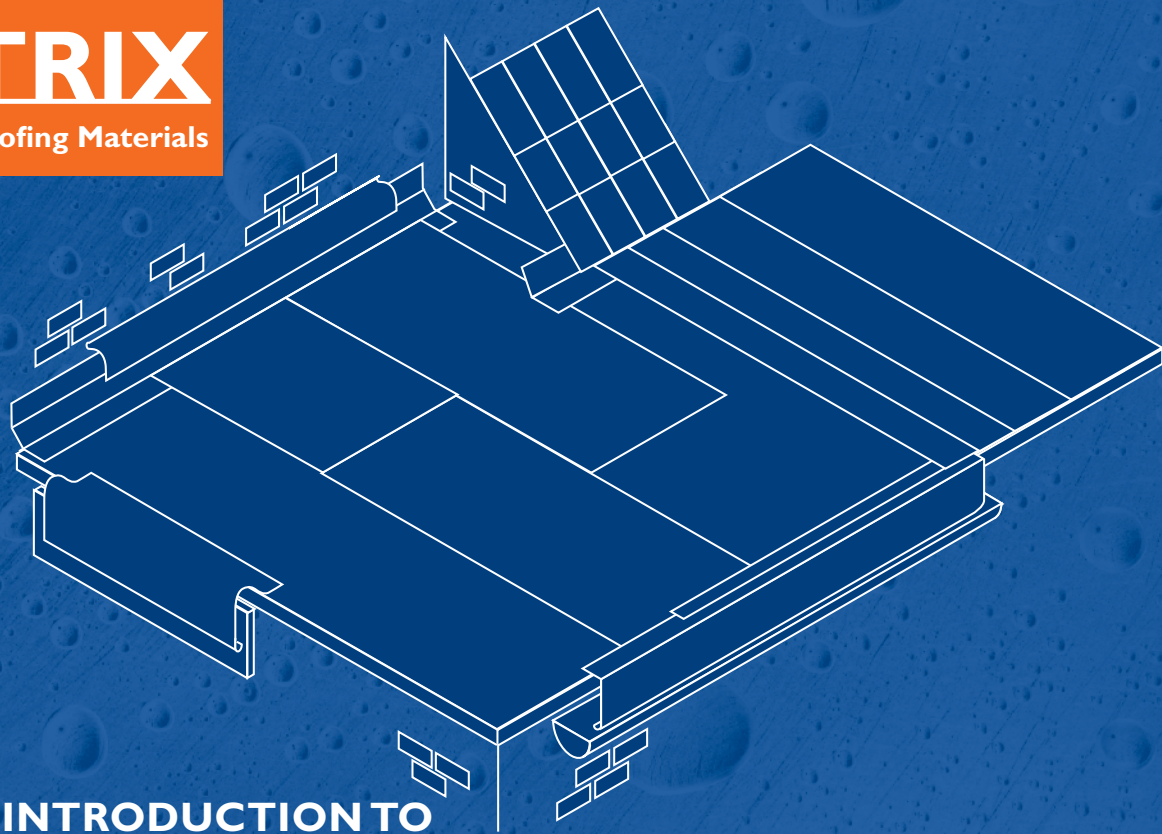




MATRIX

Fibreglass Roofing Materials



A SHORT INTRODUCTION TO

FIBREGLASS ROOFING

Welcome to the world of fibreglass roofing!

If this is your first attempt at installing a GRP roof, or even if you already have some experience, we hope that this guide will increase your knowledge of the materials and enable you to successfully install a simple GRP roof. But please be careful! This Guide is intended only as an introduction to fibreglass roofing and is not a comprehensive installation manual. If in doubt, ask.

You will find more installation information at our website www.matrix-roofing.co.uk as well as MSDS for all the Premium materials and an extensive list of FAQs.

Alternatively you can contact one of our Technical Support Team during normal working hours on 0117 954 8045 or by email at info@matrix-roofing.co.uk



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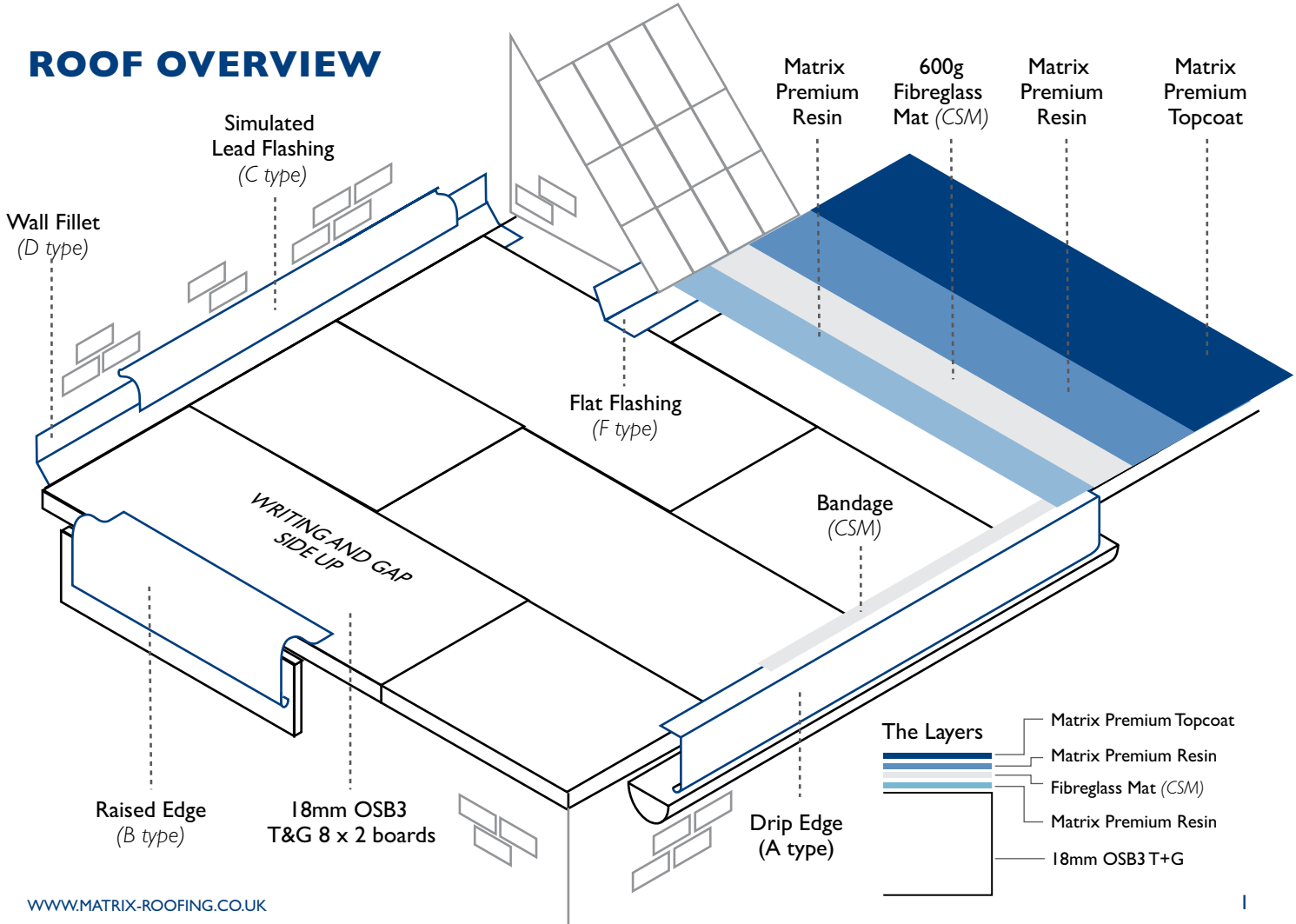
Roof Overview	1
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MATRIX PREMIUM GUARANTEE

Matrix Premium Resin and Topcoat have been specially formulated for roofing applications and correctly applied the Premium system can be expected to give excellent service for the life-span of the building. If you wish to take advantage of the fully documented 20 year Premium Warranty scheme you will need to complete some simple paperwork which can be found on our website or can be obtained from Matrix Bristol or a Matrix Distributor. Contact us for full details on 0117 954 8045 / info@matrix-roofing.co.uk

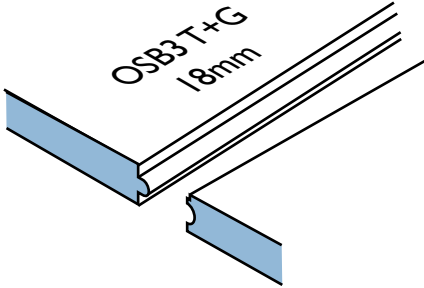


ROOF OVERVIEW

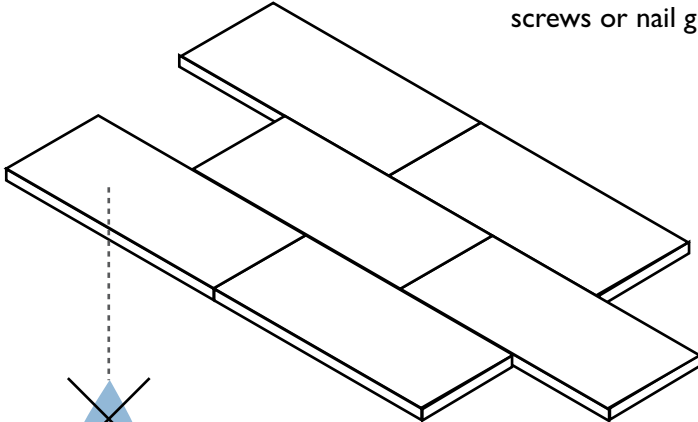


LAYING THE BOARDS

Use 18mm OSB3 T&G 8 x 2 boards.



Stagger boards on or off beams.



Boards must be dry when the laminate is applied.

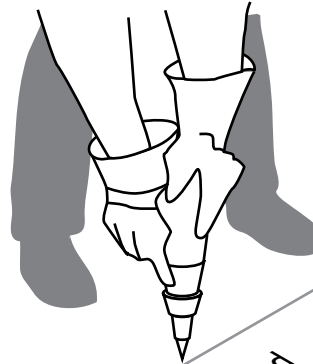
Estimating materials

Roof Size	5m ²	10m ²	20m ²
600gm CSM	3kg	6kg	12kg
Resin	9kg	18kg	36kg
Topcoat	2.5kg	5kg	10kg
Catalyst @ 3%*	< 345ml	< 690ml	< 1380ml

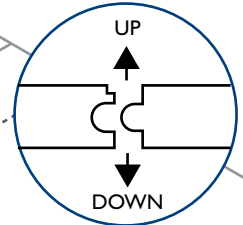
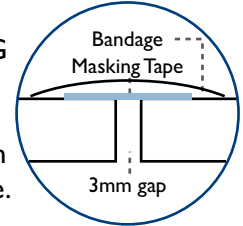
*3% catalyst for estimating only

For larger estimates:
 $5\text{m}^2 + 10\text{m}^2 = 15\text{m}^2$
 $20\text{m}^2 \times 2 = 40\text{m}^2$ and so on

Fix using ring nails, screws or nail gun.



For non T+G boards leave a 3mm gap and seal with masking tape.

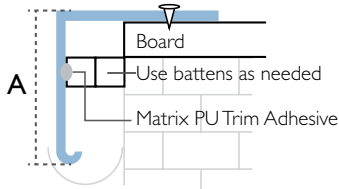


Boards should be writing side and gap side up.

Writing and gap side up

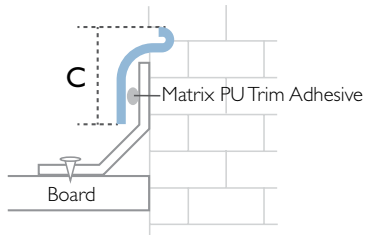
TRIM TYPES

Drip Edge (A types)



Type	A mm	Use With
A 200	90	B 260
A 170	65	B 230
A 250	140	B 300

Flashing (C types)

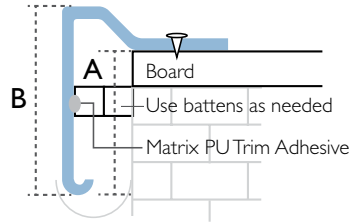


Type	C mm	Use With
C 100	100	Wall Fillets
C 100MT	100	Wall Fillets

MT = Moisture Trap

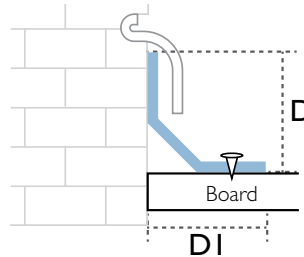
Other sizes of 'C' flashing are available

Raised Edge (B types)



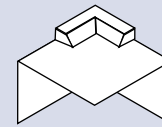
Type	B	A mm	Use With
B 260	125	90	A 200
B 230	105	65	A 170
B 300	180	140	A 250

Wall Fillets (D types)

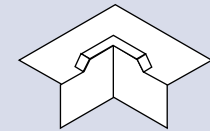


Type	D mm	DI mm	Use With
D 260	135	110	C Type Flashings
D 300	220	120	C Type Flashings

Universal Corners - use with A 200 / B 260

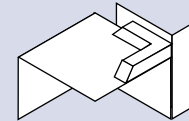


External C1

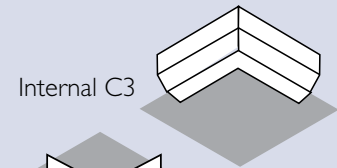


Internal C4

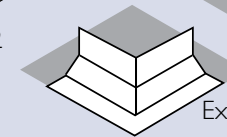
Other Corners - use with D 260 / A 200 / B 260



Fillet to Trim C2
(left and right)

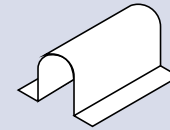


Internal C3

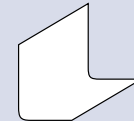


External C3

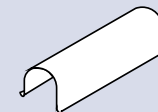
Other Trims



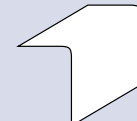
Expansion Joint E 280



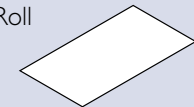
Internal Angle
AT195 Int



Simulated Lead Roll
E34/45

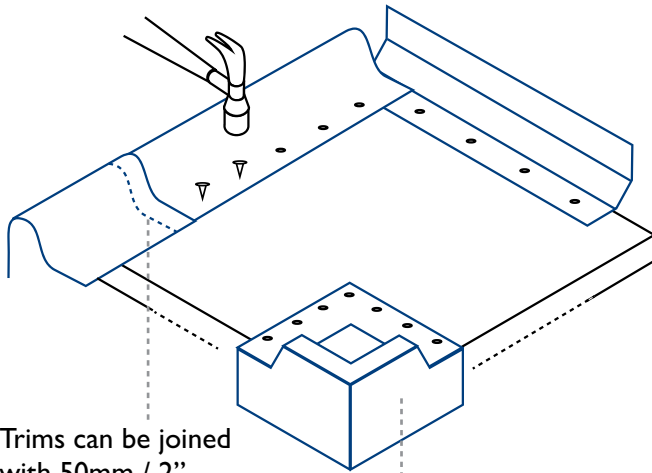


External Angle
AT195 Ext



Flexible F300

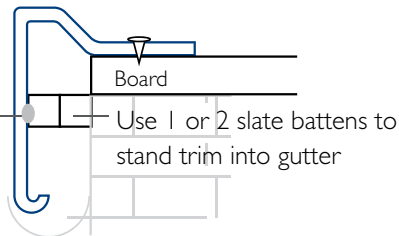
FIXING TRIMS



Trims can be joined with 50mm / 2" overlap and sealed with Matrix PU Trim Adhesive.

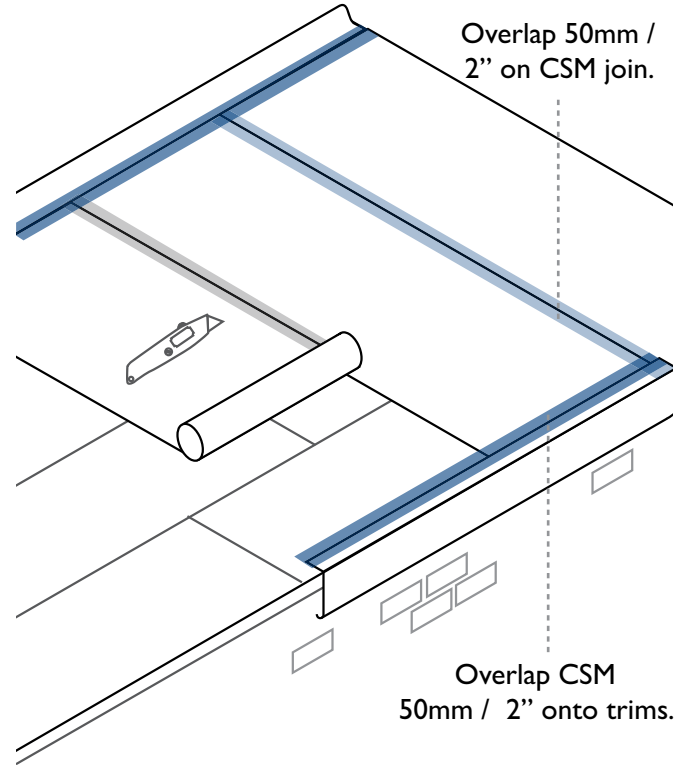
Use pre-made corners or fabricate corners in situ with GRP.

Use Matrix PU Trim Adhesive on inside face of trim to bond to batten.



DRY FIT

Measure and cut CSM as required.



When completed re-roll and put aside ready for use.

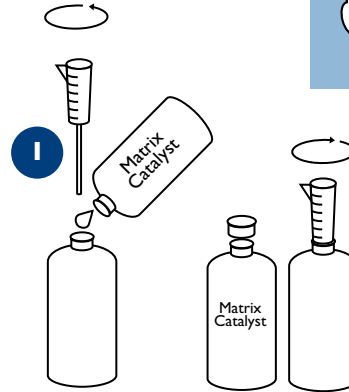
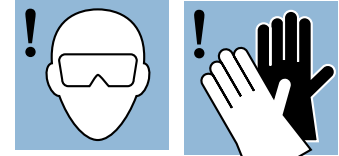
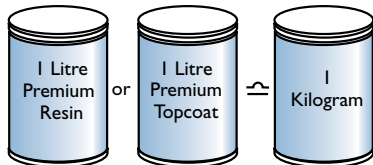
MIXING RESIN AND TOPCOAT

You must add catalyst to resin and to topcoat – or they both will remain liquid!!!

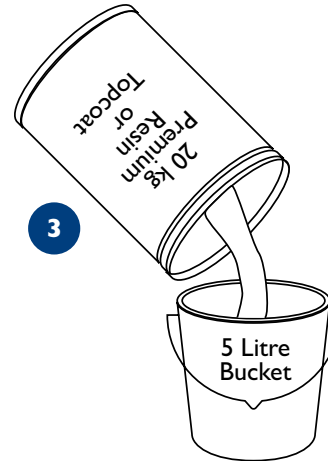
It is important to add the correct amount of catalyst for a given temperature and to give you the required pot life and curing time. By adjusting the amount of catalyst you can control the speed of the process.

How Much Catalyst ?

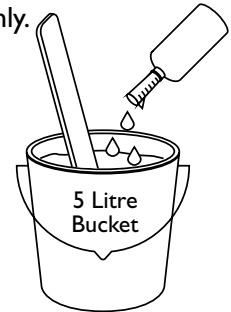
Matrix Premium Resin and Topcoat	
Temperature	Catalyst/kg
Cold day (10°C min)	40ml/kg
Cool day	30ml/kg
Warm day	20ml/kg
Hot day (30°C max)	10ml/kg
Premium Zero Resin and Topcoat	
Very cold day (0-10°C)	20-30ml/kg



2 Replace lid on dispenser and catalyst bottle.



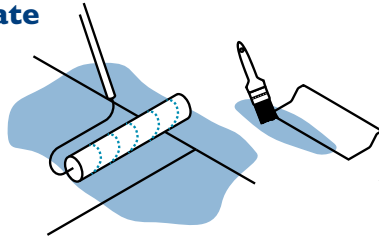
It is important to mix **4** with a flat stick and mix thoroughly.



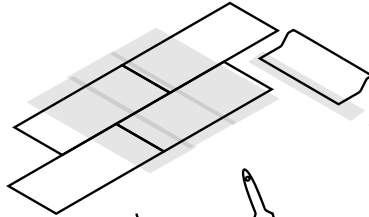
LAMINATING

How to apply the laminate

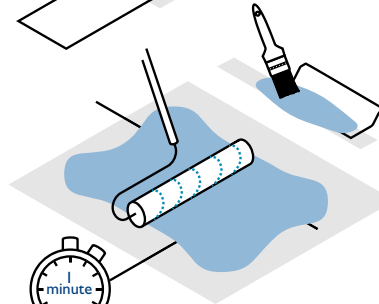
1
Apply catalysed resin with blue stripe roller (or brush for detail work).



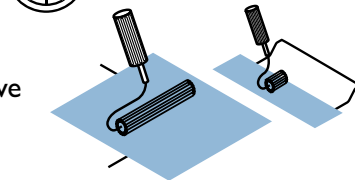
2
Apply CSM – either 75mm bandage on trim to deck joint or pre prepared CSM rolls.



3
Apply more catalysed resin to CSM – allow to dwell for 60 seconds.

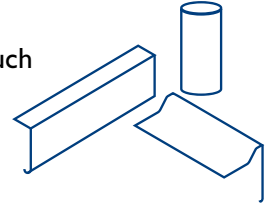


4
Consolidate with paddle roller (large or small as appropriate) to remove all air.

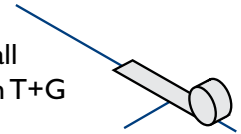


The order of work

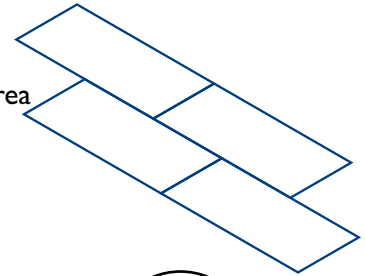
1
Laminate any small detail such as pipework, trim overlaps, corners etc.



2
Laminate the 75mm bandage over the trim to deck joints all round and deck joints on non T+G boards.



3
Laminate the main area of deck.



4
Allow to cure until you can walk on laminate without disturbing it.

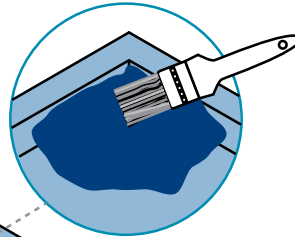


APPLYING TOPCOAT

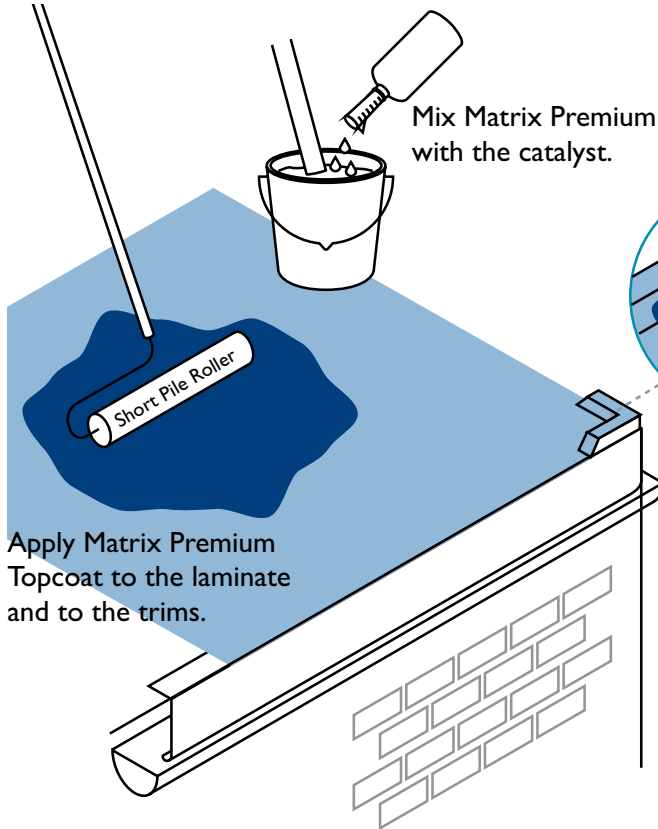
If possible apply topcoat within 24 hours.
Otherwise sand laminate before applying topcoat.



Mix Matrix Premium Topcoat with the catalyst.



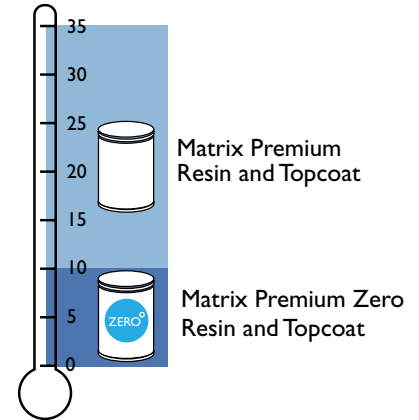
Brush Matrix Premium Topcoat into all the corners and crevices to ensure complete coverage. (Topcoat is not responsible for making the roof watertight)



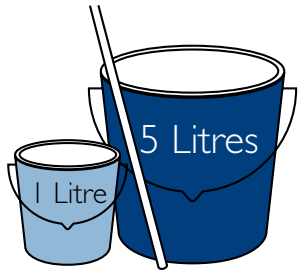
Apply Matrix Premium Topcoat to the laminate and to the trims.

WEATHER CONDITIONS

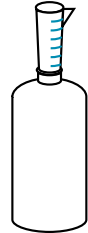
You must choose the right weather conditions. Boards must be dry. Rain can damage a laminate before it has sufficiently set. Check the weather forecast before you start.



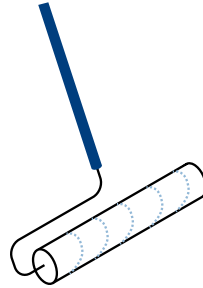
SOME TOOLS AND ACCESSORIES



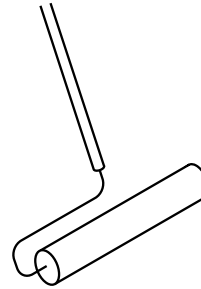
One and five litre bucket and mixing sticks



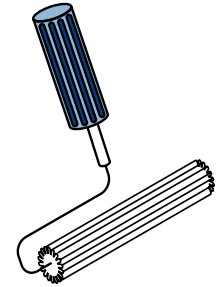
Catalyst dispenser



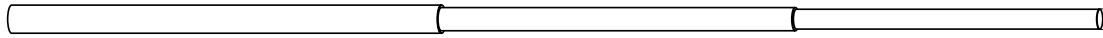
Disposable blue striped roller for Matrix Premium Resin application



Disposable short pile roller for Matrix Premium Topcoat application



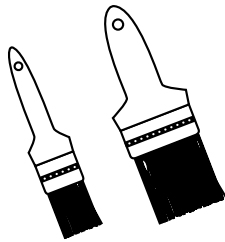
Large and small consolidation rollers



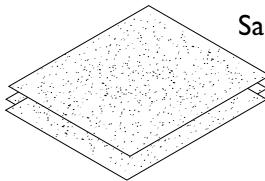
Extension pole(s)



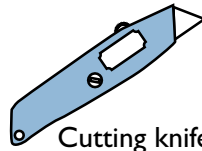
Matrix Trim Adhesive and skeleton gun



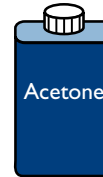
Disposable paint brushes



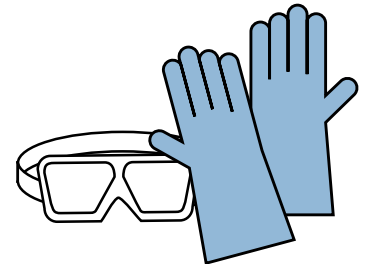
Sandpaper



Cutting knife



Acetone for cleaning



Safety goggles and disposable gloves

Disclaimer

Whilst we make every effort to provide accurate information to assist in the application of Premium Grade GRP Roofing Systems it remains the responsibility of the Contractor to ensure the materials are appropriately chosen and correctly applied. We make every effort to update our advice and material data but we reserve the right to change specifications without notice.

Please see our website www.matrix-roofing.co.uk for the latest information.

Fibreglass Roofing Distributors

George Bence & Sons, Cheltenham

41-47 Fairview Road, Cheltenham, Gloucester GL52 2EJ / 01242 237 241

Bence Roofing Supplies, Cheltenham

Units 4-5 Charlton Kings Ind Est, Cirencester Road, Cheltenham, Glos GL53 8DZ
01242 285185

Bowman Marine Supplies, Ramsgate

14 Military Road, Ramsgate Harbour Ramsgate CT11 1LG / 07900 562111

Independent Roofing Supplies Ltd, Hove

Unit 3 Newtown Road, Hove, East Sussex, BN3 7BA / 01273 729330

Independent Roofing Supplies Ltd, Newhaven

Unit 2F, Hawthorn Ind Est, Avis Way, Newhaven BN9 0DJ / 01273 516 999

Independent Roofing Supplies Ltd, Bexhill

Unit 3B, Beeching Rd, Bexhill-on-Sea, East Sussex TN39 3LG / 01424 736 999

Raven Roofing Supplies, Hawkhurst

Unit 1 The Old Station Business Park, Cranbrook Road, Hawkhurst TN18 5ER
01580 754 903

Raven Roofing Supplies, Swindon

Unit 1, Faraday Road, Dorcan, Swindon SN3 5HQ / 01793 436290

Roofing Gear, Yeovil

Unit 6 Yeobridge Trade Park, Flushing Meadow, Sherborne Road, Yeovil BA21 5DL
01935 700 425

Roofing Gear, Dorchester

Unit c1 Marabout Trading Estate Dorchester, Dorset DT1 1YA / 01305 257828

South Coast Building Supplies, Bournemouth

Poole Lane, Bournemouth, Dorset, BH11 9DU / 01202 573389

Skyline Roofing Ltd www.skylineroofing.co.uk

Skyline Bedford

Unit 1 Eastcotts Ind Est, Eastcotts Road, Bedford, MK42 0JU
01234 271 367

Skyline Edgware

199-227 Burnt Oak, Broadway, Edgware, Middx
0208 951 5677

Skyline Feltham

Hanworth Trading Est, Hampton Road West, Feltham,
Middx TW13 6DH / 0208 893 8812

Skyline Hanwell

Waterside Trading Est, Trumplers Way, Hanwell W7 2QA
0208 571 1666

Skyline Leighton Buzzard

Cherrycourt Way, Stanbridge Rd, Leighton Buzzard LU7 4AB
01525 374 723

Skyline Lewisham

198 Drakefell Rd, Brockley, Lewisham, SE4 2DS
0207 358 1000

Skyline Uxbridge

Uxbridge Road, Hillingdon, Middlesex UB10 0PH
0189 523 3524

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