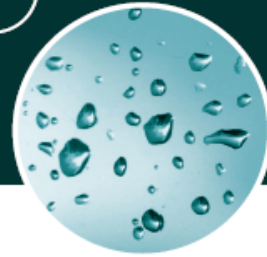


# MATRIX PREMIUM

“ The grp roofing system  
with the 20 year guarantee ”



## TECHNICAL DATA SHEET

## Matrix Premium Roofing Resin

### 1 - DEFINITIONS

Matrix Premium Roofing Resin is a low styrene orthophthalic resin designed for roofing applications. For best results it should be used in conjunction with Matrix Premium Topcoat as part of a complete roofing system and applied as per the instructions found on our website at [www.matrix-roofing.co.uk](http://www.matrix-roofing.co.uk) or in our Matrix Guide to GRP Flat Roofing.

### 2 - CHARACTERISTICS

- ◆ Improved water resistance ideal for roofing applications
- ◆ Increased flexibility for contraction and expansion
- ◆ Low viscosity for rapid wet-out and consolidation
- ◆ Adjusted for use in warm or cold weather (see section 6)
- ◆ Lloyd's approved

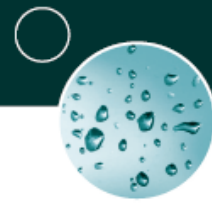
### 3 - PROPERTIES OF THE LIQUID RESIN

|   |  |
|---|--|
| <b>Viscosity Brookfield</b><br>(ISO 2555 - 20°C – sp3)<br>5rpm<br>50rpm | 2000 +/- 200 mPa.s<br>600 +/- 50 mPa.s |
| <b>Solid Content</b><br>(ICON 003)                                      | 55 +/- 2%                              |
| <b>Gel Time</b><br>(ICON 002)<br>(20°C – 2% PMEC – sur 100gr)           | 27 +/- 2 mins                          |
| <b>Peak Time</b>  | 38 mins                                |
| <b>Peak Temp</b>  | 132°C                                  |

**MATRIX**  
Composite Materials Company

Matrix Composite Materials Company Ltd.  
Unit E Paintworks, 277 Bath Road, Bristol BS4 3EH  
Tel: 0117 9715145 [www.matrix-roofing.co.uk](http://www.matrix-roofing.co.uk)

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## 4 - PROPERTIES OF THE SOLID RESIN

|  |                   |
|--|-------------------|
| <b>Tensile Strength</b><br>(ISO 527)             | 70 Mpa            |
| <b>Elongation at Break</b><br>(ISO 527)          | 4%                |
| <b>Flexural Strength</b><br>(ISO 178)            | 110 Mpa           |
| <b>Heat Distortion Temp</b><br>(ISO 75-3)        | 63°C              |
| <b>Barcol Hardness</b><br>(4mats 450gr Emulsion) | 40                |
| <b>Styrene Emission</b>                          | 4g/m <sup>2</sup> |

## 5 - APPLICATION INSTRUCTIONS

For full technical information see [www.matrix-roofing.co.uk](http://www.matrix-roofing.co.uk) or contact our Technical Team on 0117 9715145.

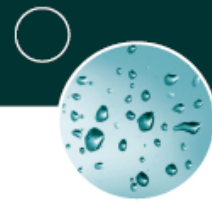
- ◆ Replace lid after use
- ◆ Store between 5-30°C
- ◆ Catalyse with MEKP catalyst at 1-3%
- ◆ Surface temperature should be between 5-30°C (*Consult Matrix for full advice on Summer and Winter versions*)
- ◆ Surface must be dry
- ◆ Laminate must remain dry until initial cure is achieved
- ◆ Application rate 3:1 resin to glass ration by weight
- ◆ Keg (20kg) sufficient for approx 11m<sup>2</sup> of 600gr CSM or 14m<sup>2</sup> of 450gr CSM
- ◆ If laminate is cured beyond 24 hours firmly abrade before applying topcoat
- ◆ Premium resin is formulated only for roofing applications
- ◆ Use within 6 months of purchase
- ◆ Curing time will vary according to temperature and catalyst %

## 6 - VERSIONS

Matrix Premium Grade resin is available in Summer and Winter grade.

## 7 - PACKAGING

Available in 5kg, 20kg kegs. 220kg barrels available on request.



## 8 - STORAGE CONDITIONS

Matrix Premium Roofing Topcoat is subject to the Highly Flammable Liquids Regulations. The Topcoat should be stored under cool conditions in close, opaque containers at a temperature not exceeding 25°C. Avoid exposure to heat sources such as direct sunlight.

A safety data sheet is available on request.