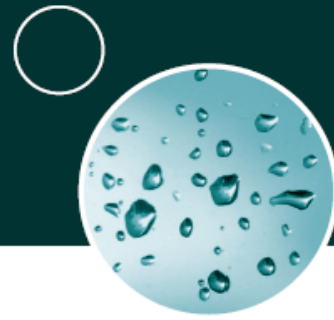


# MATRIX PREMIUM

“ The grp roofing system  
with the 20 year guarantee ”



## TECHNICAL DATA SHEET

**Matrix Grade Zer0°  
Roofing Resin  
18/12/2010**

### 1 - DEFINITIONS

Matrix Premium Zero Roofing Resin is a modified orthophthalic resin designed for roofing applications in cold weather. For best results it should be used in conjunction with Matrix Premium Zero 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. It is recommended for use at temperatures between 0°-10° C. Use a TN1 infrared thermometer to test the surface and resin temperature. Apply in dry weather and only on dry surfaces. Do not apply late in the day.

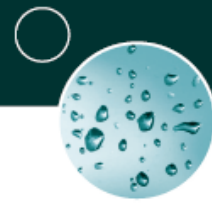
### 2 - CHARACTERISTICS

- ◆ Thixotropic, pre-accelerated and pre-promoted resin.
- ◆ Resin cures at cold temperatures by addition of M50 or equivalent MEKP catalyst
- ◆ Stir before use.
- ◆ Colour change mechanism to indicate state of cure
- ◆ Rapid wet out with Matrix CSM.
- ◆ Suitable for brush or roller application
- ◆ Can be applied on vertical surfaces
- ◆ Good weather resistance and mechanical properties

**MATRIX**  
Composite Materials Company

Matrix Composite Materials Company Ltd.  
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Tel: 0117 9715145 [www.matrix-roofing.co.uk](http://www.matrix-roofing.co.uk)

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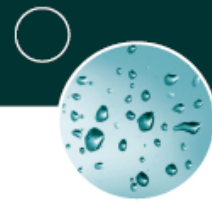


### 3 - PROPERTIES OF THE LIQUID RESIN

<b>Viscosity Brookfield</b> (ISO 2555 - 20°C – sp3) 5rpm 50rpm	2000 +/- 200 mPa.s 600 +/- 50 mPa.s
<b>Solid Content</b> (ICON 003)	55 +/- 2%
<b>Gel Time</b> (ICON 002) (20°C – 2% P MEC – sur 100gr)	8 +/- 2 mins
<b>Peak Time</b>	27 mins
<b>Peak Temp</b>	162°C

### 4 - PROPERTIES OF THE SOLID RESIN

<b>Tensile Strength</b> (ISO 527)	70 Mpa
<b>Elongation at Break</b> (ISO 527)	2%
<b>Flexural Strength</b> (ISO 178)	110 Mpa
<b>Heat Distortion Temp</b> (ISO 75-3)	63°C
<b>Barcol Hardness</b> (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.

- ◆ Mix well before use.
- ◆ Catalyse with M50 MEKP or equivalent catalyst at 2%
- ◆ Surface temperature should be between 0-10°C
- ◆ Surface must be dry. After 24hr abrade surface before applying topcoat.
- ◆ Resin must remain dry until initial cure is achieved
- ◆ Application rate approx 1.8kg/m<sup>2</sup> (600g CSM) and 1.35kg/m<sup>2</sup> (450g CSM)
- ◆ 20 year warranty only applies when used with Matrix Premium Zer0°Topcoat applied as per instructions.
- ◆ Use within 6 months
- ◆ Store between 5-15°C
- ◆ Curing and gel time will vary according to temperature and catalyst %

## 6 - PACKAGING

Available in 5kg and 20kg kegs.

## 7 - STORAGE CONDITIONS

Matrix Premium Zero Resin is subject to the Highly Flammable Liquids Regulations. The Resin should be stored under cool conditions in closed, opaque containers at a temperature not exceeding 15°C. Avoid exposure to heat sources such as direct sunlight.

A safety data sheet is available on request.