



# Customer Spec - Resin TriRoof Lloyd's Approved Roofing Technical Data Sheet

Revision date: 16/08/23

Revision number: (2)

## Product Type

Unsaturated polyester resin in styrene,  
Orthophthalic

## Appearance

Pink

## Main Applications

General Purpose

## Moulding Informations

Hand lay up and Spray up

## Shelf life and Storage

Store in the shade, out of direct sunlight. Keep storage temperature below 25°C. Unseal container just before use. Shelf-life will be reduced reaching higher temperature.

## Main Resin Characteristics

Low styrene emission  
Preaccelerated  
Thixotropic

## Precaution for Handling

As the resin includes a film-forming agent, we recommend that the laminate should first be rubbed down before bonding or relaminating. Read carefully the Safety Data Sheet  
Stir the resin before use, without introducing air

## Features of the Liquid Resin <sup>(1)</sup>

Properties	Test Method	Unit	Typical Values
Specific weight at 20°C		g/cm <sup>3</sup>	1,10
Rotothinner viscosity at 23°C	MT-CU008V	Hazen	250 - 280
Solid content	MT-CU001C	%	56 - 60
Reactivity	at 23°C + 1,5% MEKP50		
Gel time <sup>(2)</sup>	MT-CU151R	minutes	14 - 18
23°C - Peak	MT-CU151R	minutes	27 - 37
Exothermic peak	MT-CU151R	°C	90 - 110
Shelf life at 23°C in the dark	MT-CU002S	months	6

1) Thoroughly test in your applications before full-scale use. Gel times may vary due to the reactive nature of these materials and due to different brands of curing additives. Always test on small scale before formulating large quantities.

2) If present, Cobalt is herewith intended as octoate. Use of different Cobalt salts could result in different gel times. Always test on small scale before formulating large quantities.

## PROPERTIES OF THE CURED UNREINFORCED RESIN <sup>(3)</sup>

Properties	Test Method	Unit	Typical Values
Curing Cycle	16 h at 40°C (+ 2 h at 120°C for HDT)		
Tensile Strength	ISO 527 (2012)	MPa	57
Tensile Modules	ISO 527 (2012)	MPa	3715
Elongation at Break	ISO 527 (2012)	%	2,3
Flexural Strength	ISO 178 (2011)	MPa	98
Flexural Modules	ISO 178 (2011)	MPa	3630
HDT	ISO 75-2A (2013)	°C	64

3) Properties are typical values, based on material tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

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