

TECHNICAL DATA SHEET

ORTHO SENTINEL ROOFING RESIN

PRODUCT IDENTIFIER

Product Name:	ORTHO Sentinel Roofing Resin 1576924 Rev.0
Revision Date:	19-SEP-2025

MAIN CHARACTERISTICS

Product Type

Unsaturated polyester resin in styrene,
Orthophthalic

Main Resin Characteristics

Low styrene emission
Preaccelerated
Thixotropic

Appearance

Pink

Mouldings Information

Hand lay up and Spray up

Main Applications

General Purpose

Shelf Life & 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.

Precautions for Handling

As the resin includes a film-forming agent, we recommend that the laminate should first 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⁽¹⁾

PROPERTIES	TEST METHOD	UNIT	TYPICAL VALUES
Specific weight at 20°C		g/cm ³	1,10
Rotothinner viscosity at 23°C	MT-CU 008V	mPa.s	250 - 280
Solid content	MT-CU 001C	%	56 - 60
Reactivity	at 23°C +1,5% MEKP50		
Gel time ⁽²⁾	MT-CU 151R	minutes	14 - 18

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23°C - Peak	MT-CU 151R	minutes	27 - 37
Exothermic peak	MT-CU 151R	°C	90 - 110
Storage stability at 23°C in the dark	MT-CU 002S	months	4

1) Thoroughly test in your applications before full-scale use. Geltimes 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 geltimes. Always test on small scale before formulating large quantities

PROPERTIES OF THE CURED UNREINFORCED RESIN⁽³⁾

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 modulus	ISO 527 (2012)	MPa	3715
Elongation at break	ISO 527 (2012)	%	2,3
Flexural strength	ISO 178 (2011)	MPa	98
Flexural modulus	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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