



Customer Spec - Topcoat TriRoof Roofing Technical Data Sheet

Revision date: 16/08/23

Revision number: (1)

Product Type

Preaccelerated Unsaturated polyester Top Coat
in styrene,
Isophthalic Modified

Shelf life and Storage

Please ensure you rotate stock and use within shelf life
Please note the Shelf life for this product relates to
unopened containers; Only open container prior to use
Read carefully the Safety Data Sheet before use Store in
the shade, out of direct sunlight. Keep storage
temperature below 25°C. Shelf-life will be reduced at
higher temperature.

Key Features and Benefits

Filled
Good resistance to Surface Yellowing
Medium reactivity
Paraffinated
Pigmented
Preaccelerated
Super Low Viscosity
Thixotropic

Application

Brush grade materials are designed for hand application to the mould and carefully levelled with a brush for even thickness Brush grade materials are not designed for spraying or diluted with solvent to spray Do mix the Gel coat prior to use, preferably using a mechanical mixer with sufficient power for the appropriate container at low rpm. Mixing for 10 minutes every day is usually sufficient. Do NOT use air bubbling directly to mix. Do not overmix the gel coat, it may break down viscosity, increasing tendency to sag and also result in styrene loss which could contribute to porosity. Ensure Gel coat is used at minimum liquid temperature of 18°C including the mould used and workshop environment conditions Film thickness above 600 micron may pre-release, trap porosity, crack and are more subject to weathering discolouration. Film thickness below 300 micron may not cure properly, may be hard to patch, have more print through, and be more susceptible to water blisters Follow best practice application techniques Ideal thickness is 500 micron with a range of 400-600 microns wet film This top coat is ready to use - It contains wax to allow tack free curing Use only the recommended MEKP Peroxide dosage between 1.2 to 3.0% w/w

Appearance

Various Colours

Description

Topcoat TriRoof Roofing is designed for coating flat surfaces exhibiting good levelling properties BR Top coats are ready to use, easy to brush, sag resistant, fast curing and require only the addition of the correct amount of an appropriate MEKP to cure Please contact your Polynt representative for full details These are available in a limited range of colours but colour matching requests are possible TOPCOATS are not designed to be used for swimming pool recoating / relining applications TOPCOATS contain wax and cure tack free to provide an attractive cosmetic film on the back of composite pieces. They are not suitable to be used as in Mould applied gel coats

Characteristics⁽¹⁾

Properties	Test Method	Unit	Typical Values
Shelf life at 23°C in the dark		months	4
Density - 25°C	MT-C G 001 O	g/cm ³	1.10 - 1.28
Solid content	MT-CG 001C	%	62 - 69
Rheology			
Brookfield viscosity at 23°C, sp 5 rpm 5	MT-CG 025V	mPa.s	4000 - 8000
Brookfield viscosity: 5 rpm / 50 rpm at 25°C	MT-CG 025V		3.8 - 4.5
Reactivity			
Gel Time at 25°C + 1,8% MEKP50	MT-C G003 R	minutes	8 - 13
Curing time at 25°C + 1,8% MEKP50	MT-C G003 R	minutes	15 - 30
Peak exotherm at 25°C + 1,8% MEKP50	MT-C G003 R	°C	145 - 170
Film Properties			
Tack free Film cure : 500-700u at 25°C	MT-C G 901 R	min.	<60
Complete Hide	MT-C G 901 Q	microns wet	Depends upon colour

1) Thoroughly test the gelcoat 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.

Properties of the Gelcoats Base Resin in Cured State⁽²⁾

Curing Cycle	16h at 40°C		
HDT	ISO 75-2A (2013)	°C	54
Tensile strength	ISO 527 (2012)	Mpa	59
Elongation at break	ISO 527 (2012)	%	3.8

2) 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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