

Trade Line Dark Grey Topcoat

Product type

Preaccelerated Unsaturated polyester Top Coat in styrene, Isophthalic Modified

Appearance

Dark Grey.

Description

Trade Line Dark Grey Topcoat is designed for coating flat surfaces exhibiting good levelling properties
Trade Line 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 CFS 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

Key Features & Benefits

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

Generic Family: 7144

First Emission: 08/08/2023

Version: 0, 08/08/2023

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 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 topcoat, it may break down viscosity, increasing tendency to sag and also result in styrene loss which could contribute to porosity.
Ensure topcoat 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

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.

CHARACTERISTICS (1)

Properties	Test Method	Unit	Typical values
Storage stability at 23°C in the dark		months	4
Density - 25°C	MT-CG 001O	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	18000- 22000
Brookfield viscosity: 5 rpm / 50 rpm at 25°C	MT-CG 025V		5.0-7.0
Reactivity			
Gel Time at 25°C + 1,8% MEKP50	MT-CG 008R	minutes	7 - 13
Curing time at 25°C + 1,8% MEKP50	MT-CG 008R	minutes	15 - 30
Peak exotherm at 25°C + 1,8% MEKP50	MT-CG 008R	°C	130- 200
Film Properties			
Tack free Film cure : 500-700u at 25°C	MT-CG 901R	min.	<60
Complete Hide	MT-CG 901Q	microns wet	<600

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 TOPCOAT'S 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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