POLYCOR TOPCOAT ISO BR

TOP COAT

BRUSH

Technical data sheet

Date sheet n° : *4111*
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DESCRIPTION

A pre-accelerated top coat based on Isophthalic unsaturated polyester resin.
It is cured using MEKP peroxide.

APPEARANCE

Product is available in clear, white, off-white and wide range of colours and can be colour matched according to a particular demand.
The product is formulated to assure a hide in wet film thickness of 500µm. However some bright shades may have a hide slightly lower opacity.
TOP COAT : Contains wax.

PROPERTIES / ADVANTAGES

Specially formulated for finishing applications.
The product is easy to use with highly controlled rheological properties providing high resistance to sagging.
This product has good resistance to yellowing over time.
It has good gloss retention properties.
This product has good water resistance properties. Top coats are not intended for constant water immersion applications.
This product has resilient mechanical properties.

APPLICATION

This top coat is ready to use by application with a brush.
Mix the product slowly but thoroughly for 10 minutes prior to each shift start up. Apply the correct film thickness. A wet film thickness between 300 to 600µm is required ideally working with a brush to ensure a level even thickness of 500 micron
Check that the correct level of MEKP is added. A level of 1,8% is recommended. Do not use more than 3% or lower than 1,2% MEKP catalyst.
Minimum application temperature : 15°C
This product is not designed for use with a spray gun.

USE AREAS

This TOP COAT product is formulated to be applied to the back surface of laminates to provide a tack free surface finish. It should not be used as a gel coat.
This topcoat is formulated to meet the rigid requirements of transportation, boating and sanitary applications.

STORAGE / CONSERVATION

Shelf-life : 4 Months .
When the product is sealed in its original packing, stored indoors away from direct sunlight and direct heat sources and ideally at ambient temperature between 15°C and 25°C .

TYPICAL CHARACTERISTICS

LIQUID

. Density.....	1,05 - 1,26
. Viscosity (dPa.s)..... *[25°C - Spindle 5 - 5 rpm]*	210 - 260
. Thixotropic index..... *[5/50 rpm]*	3,8 - 4,4
. Solid content (%)..... *[15mn at 150°C]*	65 - 71
. Sag resistance : (µm - wet)	500
. Hide depends colour : (µm - wet)	500 - 700
. Colour :	Depends colour

CURING

. Catalyst : Low activity catalyst

. Gel time (mn) (200g - 25°C - 1,8% MEKP) :.....	8 - 13
. Peak time (mn) (200g - 25°C - 1,8% MEKP) :.....	15 - 25
. Peak exotherm (°C) (200g - 25°C - 1,8% MEKP) :.....	160 - 190
. Film cure (mn) (500µ - 20°C - 2% MEKP) :.....	45 - 80

MECHANICAL PROPERTIES AFTER CURING (On the base resins - Post Cure 16h at 40°C)

. H.D.T (NFT ISO 75) :.....	54 °C
. Strength : (Tensile : ISO 527) :.....	59 MPa
. Elongation at break (Tensile : ISO 527) :.....	3,8 %

For all additional information, refer to the Safety Data Sheet n° FP11268 available at our website address www.polynt.com.