

EPOVIA OPTIMUM BC 4200 PA

BARRIER COAT

SPRAY

Date sheet n° : U00614

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DESCRIPTION

Pre-accelerated Barrier Coat based on vinyl ester unsaturated polyester resin.

Cured using MEKP peroxide.

APPEARANCE

Product is available in yellow and blue.

Contains catalyst indicator.

USE AREAS

The product is used for production of industrial parts achieving a good surface appearance.

This high performance Barrier coat is formulated for use where resistance to water and blistering are needed.

APPLICATION

This Barrier Coat is ready to use by application with airless spray equipment.

Mix the product slowly but thoroughly for 10 minutes prior to each shift start up. Apply the correct film thickness. A wet film thickness ideally up to 700µm in a minimum 2 passes is optimal.

Check that the correct level of MEKP is added. A level of 1,8% w/w is recommended. Do not use more than 3% or lower than 1,2% w/w MEKP catalyst.

Minimum application temperature : 15°C

This product is not designed for use with a roller or brush.

PROPERTIES / ADVANTAGES

The product is easy to use with highly controlled rheological properties providing high resistance to sagging.

This product acts as an excellent barrier to osmosis within composites.

It improves the surface appearance by reducing fibre print in first layer of composite through during molding process.

STORAGE / SHELF LIFE

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 .

FEATURES OF LIQUID PRODUCT

Properties	Test method	Conditions	Unit	Typical values
Density	25°C	25°C	g/cm3	1,00 - 1,10
Solid content	MT-C G 001 C	15mn at 150°C	%	55 - 60
Viscosity	MT-C G 025 V	25°C - Spindle 4 - 4 rpm	mPa.s	10000 - 14000
Thixotropic index	MT-C G 025 V	2/20 rpm		4,5 - 6,0
Gel time	MT-C G 004 R	Catalyst : Low activity catalyst	min	11 - 16
Peak time	MT-C G 004 R		min	20 - 40
Peak exotherm	MT-C G 004 R	(200g - 25°C - 1,8% MEKP)	°C	150 - 210
Film cure	MT-C G 901 R	(700µ - 60°C - 2% MEKP)	min	65 - 75
Sag resistance	MT-C G 901 O		µm - wet	1000µm

PROPERTIES OF THE CURED UNREINFORCED RESIN

Properties	Test method	Conditions	Unit	Typical values
H.D.T	ISO 75 - 2A (2013)	16h at 40°C	°C	59
Tensile strength	ISO 527 (2012)	16h at 40°C	MPa	60
Elongation at break	ISO 527 (2012)	16h at 40°C	%	4,1

For all additional information, refer to the Safety Data Sheet n° FP 17139 available on our website.

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