

## POLYCOR ISO NPG BR

GEL COAT

BRUSH

Date sheet n° : 4600

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### DESCRIPTION

A pre-accelerated gel coat based on Isophthalic Neopentylglycol unsaturated polyester resin.  
Cured using MEKP peroxide.

### USE AREAS

This high performance gel coat is formulated for use in sanitary and marine applications or composite applications where resistance to water and blistering are needed.

### PROPERTIES / ADVANTAGES

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.

This product has good gloss retention properties.

This product has very good water resistance properties.

This product has resilient mechanical properties.

### 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 complete hide in wet film thickness at 500µm. However some bright shades may have a hide slightly lower opacity.

### APPLICATION

This gel coat is ready to use by brush application method.

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 ideally 500µm.

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

Minimum application temperature : 15°C

This product is not designed for use with a spray gun.

### 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	MT-C G 001 O	25°C	g/cm <sup>3</sup>	1,05 - 1,28
Solid content	MT-C G 001 C	15mn at 150°C	%	61 - 72
Viscosity	MT-C G 025 V	25°C - Spindle 5 - 5 rpm	mPa.s	28000 - 33000
Thixotropic index	MT-C G 025 V	5/50 rpm		3,8 - 4,4
Gel time	MT-C G 003 R	Catalyst : Low activity catalyst	min	8 - 11
Peak time	MT-C G 003 R		min	15 - 25
Peak exotherm	MT-C G 003 R	(200g - 25°C - 1,8% MEKP)	°C	160 - 190
Film cure	MT-C G 901 R	(500µ - 20°C - 2% MEKP)	min	40 - 50
Sag resistance	MT-C G 901 O		µm - wet	500
Hide	MT-C G 901 Q	Dependant upon colour	µm - wet	500 - 700
Colour	MT-C G 002 L			Depends colour

### 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	61
Tensile strength	ISO 527 (2012)	16h at 40°C	MPa	53
Elongation at break	ISO 527 (2012)	16h at 40°C	%	3,4

For all additional information, refer to the Safety Data Sheet n° FP11158 available on our website.

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