

POLYCOR LSC NPG FLEX PA

GEL COAT

SPRAY



Technical data sheet

Date sheet n° : 5400

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DESCRIPTION

A pre-accelerated gel coat base on unsaturated polyester resin. It is cured using MEKP peroxide.

APPEARANCE

Product is available in 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.

PROPERTIES / ADVANTAGES

The product is easy to use with highly controlled rheological properties providing high resistance to sagging. This product has very good resistance to yellowing over time. It has very good gloss retention properties. This product has very good water resistance properties. Designed with higher solids content in order to reduce the emission of volatile compounds. The emissions are reduced during both the dynamic application and static curing stages.

APPLICATION

This gel 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 between 300 to 600µm is required ideally in 3 even passes. 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 roller or brush.

USE AREAS

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

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.....	1,25 - 1,35
. Viscosity (dPa.s)..... [25°C - Spindle 4 - 4 rpm]	120 - 160
. Thixotropic index..... [2/20 rpm]	6,0 - 7,5
. Solid content (%)..... [15mn at 150°C]	65 - 70
. 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) :.....	18 - 22
. Peak time (mn) (200g - 25°C - 1,8% MEKP) :.....	40 - 70
. Peak exotherm (°C) (200g - 25°C - 1,8% MEKP) :.....	110 - 160
. Film cure (mn) (500µ - 20°C - 2% MEKP) :.....	50 - 75

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

. H.D.T (NFT ISO 75) :.....	49 °C
. Strength : (Tensile : ISO 527) :.....	40 MPa
. Elongation at break (Tensile : ISO 527) :.....	9,9 %

For all additional information, refer to the Safety Data Sheet n° FP17311 available at our website address www.polynt.com.

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