

ARMORFLEX 99F PA

GEL COAT

SPRAY



Technical data sheet

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DESCRIPTION

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

APPEARANCE

Product is available in white and off-white can be colour matched according to a particular demand.

PROPERTIES / ADVANTAGES

The product is easy to use with highly controlled rheological properties providing high resistance to sagging.
This product has improved impact resistance properties
This product has excellent resistance to yellowing over time.
It has excellent gloss retention properties.
This product has very good water resistance properties.
The product has a low tack backside surface.

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 : 18°C
This product is not designed for use with a roller or brush.

USE AREAS

In conjunction with vinyl ester barrier coats or skin coats will provide a durable osmotic resistant composite suitable for marine hulls.

STORAGE / CONSERVATION

Shelf-life : 3 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		CURING	
. Density.....	1,32 - 1,36	. Catalyst : Low activity catalyst	
. Viscosity (dPa.s)..... [25°C - Spindle 4 - 4 rpm]	150 - 170	. Gel time (mn) (200g - 25°C - 1,8% MEKP) :.....	16 - 20
. Thixotropic index..... [2/20 rpm]	5,0 - 6,5	. Peak time (mn) (200g - 25°C - 1,8% MEKP) :.....	20 - 45
. Solid content (%)..... [15mn at 150°C]	65,0 - 67,5	. Peak exotherm (°C) (200g - 25°C - 1,8% MEKP) :.....	120 - 200
. Sag resistance : (µm - wet)	500	. Film cure (mn) (500µ - 20°C - 2% MEKP) :.....	40 - 80
. Hide depends colour : (µm - wet)	250	MECHANICAL PROPERTIES AFTER CURING (On the base resins - Post Cure 16h at 40°C)	
. Colour :	Depends colour	. H.D.T (NFT ISO 75) :16h at 40°C.....	42 °C
		. Strength : (Tensile : ISO 527) :.....	52 MPa
		. Elongation at break (Tensile : ISO 527) :.....	3,8 %

For all additional information, refer to the Safety Data Sheet n° FP17711 available at our website address www.polynt.com.

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