

ISOPHTALIC TOOLING GEL COAT

Fiberglass moulds are largely used in many applications and with different technol-**VERSIONS** ogies within the composite industry. The quality of any moulded part depends on the proper manufacture and surface spray up finishing of the mould. Therefore the selection of a proper tooling gel coat it's exbrush tremely important and will affect both the mould's life span and its performances. colored Our tooling isophtalic gel coat has the following features: • high chemical resistance, in particular to styrene no porosity high gloss low shrinkage good mechanical properties · excellent application properties

Application guide

They are available for both brush or spray up application.

For a proper application we strongly recommend to check that the temperature of the gel coat, of the mould and in the workshop is between 18°C and 25°C. All our gel coats are normally supplied pre-accelerated and simply need to be mixed with standard MEKP 50% peroxide. The amount of peroxide should be between 1% and 2%. The wet film thickness, depending on the shape of the mould and on the application method, should roughly be between 0,6 and 0,7 mm, which it's normally 700-900 g/m² of gel coat. It is advisable to build up the required thickness not in just one coat, but in few crossed coats to avoid microporosity.

When applied with "airless" or similar equipment, we recommend the fine tuning of the machine (nozzle and pressure). If a further dilution is needed for the application, type and quantity of the diluent may vary according to specific needs. Please refer to our technical service for advice. We do not recommend the use of acetone, particularly in the brush version.

APPLICATIONS

mould construction
mould maintenance

Chemical and phsycal properties

	method	unit	224531P	224531	PACKING
application			spray up	brush	pails Kg 25 drums Kg 250
appearance	A 01*	visual	orange thixo	ornage thixo	
solid content	C 08*	%	61 ± 2	69 ± 2	COLORS
specific weight	DIN 63217	g/cm ³	1,1 ± 0,1	1,1 ± 0,1	black orange
Barcol	ASTM D 2583	unit	=> 45	=> 45	green
gel time	P 04*	minutes	10 ± 2	10 ± 2	
peak	P 04*	°C	200 ± 10	190 ± 10	SHELF LIFE 3 months if properly stored in the
°C increase from 35°C	P 04*	°C/min	=> 15	=> 15	original sealed pails, between 15° and 25°C, away from naked flames, heat sources and not exposed to direct sunlight
viscosity rpm 2 rpm 20	ASTM D 2196	mPa.s mPa.s	25.000/35.000 4.000/5.000	40.000/40.000 8.000/10.000	
thix index	ASTM D 2196	ratio	=> 6,5	5/6	WARNINGS

^{*} italbeit's internal method

flammable product: keep it away from heat sources, sparkles and naked flames

do not eat, drink or smoke during application

avoid static charges

keep the workshop properly ventilated

since 1946

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