

ISONEOPENTYLIC GEL COAT

This line of gel coats developed by **italbeit** has been formulated with an unsaturated polyester resin based on isophthalic acid and neopentyl glycol and its performances are by far at the highest possible level in all the most demanding applications. Iso Neopentyl gel coats show the following properties:

- outstanding water resistance
- excellent UV resistance
- superior mechanical properties
- excellent application properties

The combination of these properties makes them ideal for the following applications: marine industry, swimming pools and water parks slides, sanitary ware and all those applications where the resistance to sun light and water is playing a key role.

They are also available in the self-release version, which simplifies demolding operations, and as topcoats.

VERSIONS

spray up

roller

brush

self-release

topcoat

colored

fast gel time

transparent

Application guide

For a proper application we strongly recommend to check that the temperature of the gel coat, of the moulds 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 0,4 and 0,5 mm, which it's normally 600-800 g/m² of gel coat.

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

marine

sanitary

swimming pools

water parks

Chemical and physical properties

	method	unit	107318P	107318	115098PU	115098U	
application			spray up	brush	spray up	brush	PACKING pails Kg 25 drums Kg 250 IBC Kg 1000
appearance	A 01*	visual	white	white	clear	clear	
solid content	C 08*	%	62 ± 3	72 ± 2	58 ± 2	67 ± 2	
specific weight	DIN 63217	g/cm ³	1,2 ± 0,1	1,2 ± 0,1	1,2 ± 0,1	1,1 ± 0,1	COLORS unlimited color matching service available
Barcol	ASTM D 2583	unit	=> 44	=> 44	=> 44	=> 44	
gel time	P 04*	minutes	10 ± 2	10 ± 2	11 ± 2	10 ± 2	
peak	P 04*	°C	170 ± 10	175 ± 10	180 ± 10	180 ± 10	SHELF LIFE 3 months when properly stored in the original sealed pails, between 15°C and 25°C, away from naked flames, heat sources and not exposed to direct sun light.
increase from 35°C	P 04*	°C/min	=> 12	=> 12	=> 15	=> 14	
viscosity	rpm 2 rpm 20 ASTM D 2196	mPa.s mPa.s	25.000/35.000 4.000/5.000	40.000/55.000 8.000/12.000	45.000/55.000 6.500/8.500	50.000/60.000 9.000/12.000	
thix index	ASTM D 2196	ratio	=> 6	4/5	=> 6,5	4/6	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

note:

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