CRYSTIC® GELCOAT 967SMK EXCEL

Iso-NPG Spray Gelcoat for Sanitaryware Applications

Introduction
Crystic Gelcoat 967SMK Excel is a pre-accelerated Iso-NPG thixotropic polyester gelcoat specially designed to be applied by an airless spray machine.

Applications
Crystic Gelcoat 967SMK Excel has been especially designed for the production of sanitary items, mainly sinks and vanity units, where excellent resistance to thermal shock and low microporosity are key properties. It is pre-accelerated and only requires the addition of the catalyst to start its curing reaction.

Features and Benefits

Iso NPG base resin	Excellent hot water resistance Excellent chemical resistance
Special additives	Outstanding thermal shock resistance High initial gloss and gloss retention No microporosity Low viscosity with high resistance to sagging
Easy to polish	High gloss level easily achieved
Fast curing	Fast mould turn round, time saving

Variants
This gelcoat is also available in a gravity gun spray process version under the reference Crystic Gelcoat 967K Excel. It is also available with a faster curing time under the reference Crystic Gelcoat 967SMK W Excel. This product can also be supplied with an antibacterial protection under the reference Crystic Microban Gelcoat 967SMK Excel.

Product Characteristics
Crystic Gelcoat 967SMK Excel must be allowed to attain workshop temperature (18 - 20°C) before use. Stir well by hand or with a low shear mixer and leave to rest. The gelcoat only requires the addition of catalyst to start curing. The recommended catalyst is Butanox M50 (or other equivalent catalyst) which should be added at 2% in the gelcoat.

Geltime
Catalyst level and temperature will influence the gel time. At 25°C, the typical geltime of Crystic Gelcoat 967SMK Excel with 2% Butanox M50 is 6 to 8 minutes.

Application

Application Temperature	18 - 20°C
Dilution	Ready to use
Catalyst	2% Butanox M50
Airless Gun Nozzle	421
Gravity Gun Nozzle	Nozzle 20/10 to 30/10 mm
Pressure	3 to 4.5 bars
Distance to Mould	50cm minimum
Thickness	400 - 600 Microns

Recommended Testing
It is recommended that customers test all pigmented gelcoats before use under their own conditions of application to ensure the required surface finish is achieved.

Physical Data - Uncured

Property	Unit	Liquid Gelcoat
Viscosity at 25ºC (Brookfield RVT Sp n°5, 2.5rpm)	dPas	300 – 350
Index of Thixotropy		5.8 – 6.2
Specific Gravity at 25ºC		1.18
Stability at 20ºC	Months	3

Physical Data - Cured

Property	Unit	Fully Cured Base Resin
Barcol Hardness (Model GYZJ 934-1)		45
Heat Deflection Temperature (1.80 MPa)	ºC	90
Elongation at Break	%	3.0
Tensile Strength	MPa	70
Tensile Modulus	MPa	3400

Curing Schedule - Test According to BS 2782:1976
1MPa = $1MN/m^2$ = $1N/mm^2$ = 10.2 kgf/cm

Packaging
Crystic Gelcoat 967SMK Excel is supplied in 25Kg kegs and 200Kg drums

Storage
Crystic Gelcoat 967SMK Excel should be stored in its original container and out of direct sunlight. It is recommended that the storage temperature should be less than 20°C where practical, but should not exceed 30ºC. Ideally, containers should be opened only immediately prior to use. Avoid proximity of heat and water infiltration risk.

Health and Safety
Please see separate Material Safety Data Sheet.

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