

# CRYSTIC GELCOAT 967 SMK EXCEL

## ISO-NPG Spray Gelcoat for Sanitaryware Applications

### Introduction

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

### Applications

Crystic Gelcoat 967 SMK 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 & Benefits

#### *Features*

Iso NPG base resin

Special Additives

Easy to polish

Fast Curing

#### *Benefits*

Excellent hot water resistance

Excellent chemical resistance

Outstanding thermal shock resistance

High initial gloss and gloss retention

No microporosity

Low viscosity with high resistance to sagging

High gloss level easily achieved

Fast mould turn round, time saving

### Variants

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

### Product Characteristics

Crystic Gelcoat 967 SMK 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.

### Gel Time

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

### Application

Application temperature	18 – 20 °C
Dilution	Ready for use
Catalyst	2 % Butanox M50
Airless gun nozzle	421
Gravity gun nozzle	20/10 to 30/10 mm
Pressure	3 to 4.5 bars
Distance to mould	50 cm 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.

## Typical Properties

		<b>Liquid Gelcoat</b>
Viscosity at 25°C (Brookfield RVT Sp n°5, 2.5rpm)	dPas	300 - 350
Thixotropic Index	-	5,8 – 6,2
Specific Gravity at 25 °C	-	1.18
Stability in the dark at 20 °C	months	3
		<b>Cured Resin Base</b>
Barcol Hardness (Model GYZJ 934-1)		45
Heat Deflection Temperature (1.8 MPa)	°C	90
Elongation at Break	%	3.0
Tensile Strength	MPa	70
Tensile Modulus	MPa	3400

(Curing schedule - Test According to BS 2782:1976)

$$1\text{MPa} = 1\text{MN/m}^2 = 1\text{N/mm}^2 = 10.2 \text{ kgf/cm}$$

## Packaging

Crystic Gelcoat 967 SMK EXCEL is supplied in 25 kg kegs and 200 kg drums

## Storage

Crystic Gelcoat 967 SMK 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 30°C. Ideally, containers should be opened only immediately prior to use. Avoid proximity of heat and water infiltration risk.

## Health & Safety

Please refer to Material Safety Data Sheet.

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