CRYSTIC® GELCOAT G 976SMK

Iso - NPG Spray Gelcoat

for Swimming Pool Applications

Introduction
Crystic Gelcoat G 976SMK is an Iso - NPG gelcoat, thixotropic and pre-accelerated. This gelcoat is to be applied by spray with airless machine.

Application
Crystic Gelcoat G 976SMK has been specially designed for the moulding of swimming pools. It will provide high chemical and hydrolysis resistance.

Features and Benefits

Features	Benefits
Iso - NPG base resin	Excellent water resistance Excellent chemical resistance
Special Pigments	Longer resistance to whitening
Easy to apply	Excellent surface aspect
Low styrene content	Better comfort for the workers and for the environment

Formulation
Crystic Gelcoat G 976SMK must be allowed to attain workshop temperature before use (18 – 20°C). It is highly recommended to stir the product with a low shear mixer and then to let it rest before use. The product 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.

Variants
Crystic Gelcoat G 976SMK is also available in brush version under the reference Crystic Gelcoat G 976KH.

Gel Time
Catalyst level and temperature will influence the gel time. At 25°C, typical gel time of Crystic Gelcoat G 976SMK with 2% Butanox M50 is 8 to 10 minutes.

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.

Application

Application Temperature	18 – 20°C
Dilution	Ready for use
Catalyst	2% Butanox M50
Nozzle Airless Gun	423 – 631
Pressure	3 to 4.5 bars
Distance to Mould	50 cm minimum
Wet Film Thickness	600 – 800 microns

Typical Properties

Property		**Liquid Gelcoat**
Viscosity at 25ºC (Brookfield RVT Sp n°5, 2.5rpm)	dPas	260 - 360
Index of Thixotropy		5.3 – 5.9
Specific Gravity at 25ºC		1.18 – 1.25
Stability at 20ºC	months	3
Styrene Content	%	34 - 36
Property		**Fully cured Base Resin**
Barcol Hardness (model GYZJ 934-1)		45
Heat Deflection Temperature (1.8 MPa)	ºC	90
Elongation at Break	%	3 - 4
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 G 976SMK is supplied in 25 kg kegs and 200 kg drums

Storage
Crystic Gelcoat G 976SMK 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.

Health & Safety
Please refer to Material Safety Data Sheet.

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SCOTT BADER COMPANY LIMITED
Wollaston, Wellingborough, Northamptonshire, NN29 7RL
Telephone: +44 (0) 1933 663100
Facsimile: +44 (0) 1933 666623
www.scottbader.com