

# CRYSTIC® GELCOAT 997SMK

# **Isophtalic NPG Sanitary Gelcoat**

#### Introduction

Crystic Gelcoat 997SMK is a pre accelerated Isophtalic Neopenthylglycol, thixotropic and water clear polyester gelcoat specially designed to be used by airless spray equipment.

## **Application**

Crystic Gelcoat 997SMK has been specially designed for the production of a transparent film on sanitary items, mainly sinks and vanity units, when excellent resistance to thermal chock is a key property. It is pre accelerated and only requires the addition of the catalyst to start its curing reaction.

# **Features and Benefits**

Pure Iso - NPG base resin 

Excellent resistance to hot water

Excellent chemical resistance

Special additives Outstanding thermal chock resistance
Fast curing Fast mould turn round, time saving

#### **Variants**

This product exists for gravity gun spray process under the reference Crystic 997KY, with a minimum production size of 100Kg.

#### **Formulation**

Crystic Gelcoat 997SMK must be allowed to attain workshop temperature before use. Stir well by hand or with a low shear mixer to avoid aeration, and then allows to stand to regain thixotropy. The recommended catalyst is catalyst M (or Butanox M50) which should be added at 2% in the gelcoat.

#### Geltime

Catalyst level and temperature will influence the gel time. Typical geltime at 25°C of Crystic Gelcoat 997SMK for 100 parts gelcoat catalysed with 2% catalyst M is 10 to 12 min.

#### **Physical Data - Uncured**

Property	Unit	Liquid Gelcoat
Viscosity at 25°C (Brookfield RVT – sp n°5 – 2.5 rpm)	dPas	180 - 220
Thixotropic Index		4.7 - 4.9
Specific Gravity at 25°C		1.18
Stability In The Dark at 20°C	Month	3

### **Physical Data - Cured**

Property	Unit	Cured Base Resin
Barcol Hardness (Model GYZJ 934-1)		45
HDT (1.8 MPa)	°C	90
Elongation at Break	%	3
Tensile Strength	MPa	70
Tensile Modulus	MPa	3400

Test according to BS 2782:1976

Crystic Gelcoat 997SMK - TDS

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

#### **Application**

Gently stir the gelcoat before use by hand or low shear mixer. Ensure the gelcoat has attained workshop temperature (18 - 20°C) before use.

	997SMK / 997KY
Application	Airless / Gravity Gun
Catalyst	1 to 3% M50
Airless Gun Nozzle	421
Gravity Gun Nozzle	Nozzle 20/10 to 30/10 mm
Pressure	3 to 4.5Kg/cm <sup>2</sup>
Distance to Mould	50cm minimum
Thickness	400 - 600 Microns

#### **Packaging**

Crystic Gelcoat 997SMK is supplied in 25Kg kegs and 200Kg drums.

#### Storage

Crystic Gelcoat 997SMK should be stored in the dark in suitable closed containers. It is recommended that the storage temperature should be less than 20°C.

#### Health and safety

Please see separate Material Safety Data Sheet.

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