

# GELCOAT CRYSTIC 997 HVK

## Isophthalic NPG sanitary gelcoat

### Introduction

**GELCOAT CRYSTIC 997 HVK** is a pre accelerated Isophthalic Neopentylglycol, thixotropic and water clear polyester gelcoat specially designed for spray application

### Application

**GELCOAT CRYSTIC 997 HVK** has been specially designed for the production of a granit effect coating 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

#### *Features*

Pure Iso. NPG base resin.....

Special additives.....

Fast curing.....

Highly thixotropic.....

#### *Benefits*

Excellent resistance to hot water

Excellent chemical resistance

Outstanding thermal chock resistance

Fast mould turn round, time saving

No sagging at thick layer

### Variants

**CRYSTIC 997 SMK**, is the low viscosity version of **CRYSTIC 997 HVK**

### Formulation

**GELCOAT CRYSTIC 997 HVK** 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.

## Gel time

Catalyst level and temperature will influence the gel time. Typical gel time at 25°C of **GELCOAT CRYSTIC 997 HVK** for 100 parts gelcoat catalysed with 2 % catalyst M is 9 to 12 min.

## Typical properties

### *Liquid gelcoat*

|                                 |       |           |
|---------------------------------|-------|-----------|
| Viscosity at 25°C               | dPas  | 400 – 450 |
| Brookfield RVT - Sp 5 / 2.5 Rpm |       |           |
| Thixotropic index               |       | 5,8 – 6,2 |
| Specific gravity at 25°C        |       | 1.18      |
| Stability in dark at 20°C       | month | 3         |

### *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

1MPa = 1MN/m<sup>2</sup> = 1N/mm<sup>2</sup> = 10,2 kgf/cm<sup>2</sup>

## 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.

|                                   | <b>CRYSTIC G997 HVK</b>             |
|-----------------------------------|-------------------------------------|
| Application                       | Airless / Gravity gun               |
| Catalyst                          | 1 to 3% M50                         |
| Nozzle : airless<br>: gravity gun | - 421 to 435<br>- 20/10 to 30/10 mm |
| Pressure                          | 3 to 4.5 kg/cm <sup>2</sup>         |
| Nozzle / mould distance           | 50 cm minimum                       |
| Thickness                         | 600 μ - 800μ                        |

## Packaging

**GELCOAT CRYSTIC 997 HVK** is supplied in 25 kg keg and 200 kg drums.

## Storage

**GELCOAT CRYSTIC 997 HVK** 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.

*All information is given in good faith but without warranty. We cannot accept responsibility or liability for any damage, loss, or patent infringement resulting from the use of this information.*

Ang\_GC\_997 HVK / June 2009



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