CRYSTIC GELCOAT GC95PA AND GC95PAHV

Spray Granite Gelcoat

Introduction

Crystic Gelcoat GC95PA and GC95PAHV (higher viscosity version of GC95PA) are pre-accelerated gelcoats based on a high clarity, low colour isophthalic/neopentyl glycol resin. They have been specially formulated to accept Poly Stone coloured chips for application by various spray methods.

Applications

Crystic Gelcoat GC95PA or GC95PAHV combined with the Poly Stone coloured chips are recommended for use in interior and sanitary applications. The gelcoat and chips combination provide a granite effect on vanity units, worktops/seating in kitchens, bathrooms and commercial premises, including fast food restaurants, pubs, offices and airports.

Features and Benefits

Crystic Gelcoat GC95PA or GC95PAHV combined with the Poly Stone coloured chips, produces numerous and varied granite finishes which have the same aesthetic appeal of Solid Surface.

Formulation

The recommended starting formulation for the combination with the Poly Stone chip is:

75% Crystic GC95PA or GC95PAHV
25% Poly Stone coloured chips

This combination requires only the addition of catalyst to start the curing process. The recommended catalyst is Butanox M50 which should be added at 2%, calculated on the weight of the Crystic Gelcoat GC95PA or GC95PAHV present in the combination with the Poly Stone chips.

Pot Life of GC95PA and GC95PAHV

Temperature	Pot Life in Minutes
15°C	22
20°C	14
25°C	9

The gelcoat mould and workshop should all be at or above 15°C before curing or spraying is carried out.

Application of Crystic GC95PA or GC95PAHV/ Poly Stone combination

For full details of the spray application of Crystic GC95PA or GC95PAHV, please refer to the Scott Bader "Application Guide for the Wet Spraying Method of Crystic Stonecast Spray Grainite Gelcoat".

Typical Properties

The following tables give typical properties of the Crystic Gelcoat GC95PA and Crystic GC95PAHV.

Property		GC95PA Liquid Gelcoat	GC95PAHV Liquid Gelcoat
Appearance		Pale Pink	Pale pink
Viscosity @ 25°C (shear rate of 4500sec-1)	poise	2.1	2.5
Viscosity at 25°C (shear rate of 6.0sec-1)	poise	16	33
Viscosity at 25°C (shear rate of 0.6sec-1)	poise	100	230
Gel time @ 25°C using 2% Butanox M50	minutes	9	9
Stability in the dark @ 20°C	months	3	3

Property		Fully cured * (unfilled casting)	Fully cured† (unfilled casting)
Barcol Hardness (Model GYZJ 934-1)		44	44
Water Absorption 24 hrs @ 23°C	mg	24	24
Deflection Temperature under load† (1.80 MPa)	°C	100	100
Elongation at Break	%	2.2	2.2
Tensile Strength	MPa	60	60
Tensile Modulus	MPa	3000	3000

* Curing Schedule. 24 hrs @ 20°C, 3 hrs @ 80°C

† Curing Schedule. 24 hrs @ 20°C, 5 hrs @ 80°C, 3 hrs @ 120°C

Post-Curing

Satisfactory laminates can be made with Crystic GC95PA or GC95PAHV by curing at workshop temperature above 15°C). However where optimum properties are required, such as in contact with hot and cold water, the laminates must be post-cured before being put into service. The moulding should be allowed to cure for 24 hours at 20°C and then oven cured for 3 hours at 80°C.

Storage

Crystic GC95PA and GC95PAHV should be stored in the dark in suitable, closed containers. 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.

Packaging

Crystic GC95PA and GC95PAHV are supplied in 20Kg containers and 225Kg drums.

Health and Safety

Please see separate Material Safety Data Sheet.

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