CRYSTIC® GELCOAT 0209 KH

Brush Isophtalic Gelcoat

Introduction
Crystic Gelcoat 0209 KH is a pre accelerated Isophtalic and thixotropic polyester gelcoat specially designed for brush application.

Application
Crystic Gelcoat 0209 KH has been developed for the production of wind mill blades, it is pre accelerated and pro motorised and only requires the addition of the catalyst to start its curing reaction.

Features and Benefits

Pure isophtalic base resin	Excellent weathering resistance
Pro motorised	Rapid curing, fast mould turn round
Levelling additives	Excellent self-levelling, no waving effect

Formulation
Crystic Gelcoat 0209 KH must be allowed to attain workshop temperature before use. Stir well by hand or with a low shear mixer to avoid aeration, and then allow to stand to regain thixotropy. The recommended catalyst is catalyst M (or Butanox M50) which should be added at 2% in the gelcoat.

Pot Life
Catalyst level and temperature will influence the geltime. Typical geltime of Crystic Gelcoat 0209 KH for 100 parts gelcoat catalysed with 1.5% catalyst M is shown in the following table.

Temperature	Geltime In Minutes
23ºC	12

The back up time of Crystic Gelcoat 0209 KH is below 60 minutes at 20°C with 1.5% catalyst M.

Physical Properties - Uncured

Property	Unit	Liquid Gelcoat
Viscosity at 23°C (Brookfield Sp4, 3Rpm)	dPas	200-240
Thixotropic Index (3/30 rpm)		≥ 4.5
Specific Gravity at 25°C		1.25
Stability In The Dark at 20°C	Month	3

Physical Properties - Cured

Property	Unit	Fully Cured Gelcoat
Barcol Hardness After 24 hrs (Model GYZJ 934-1)		>30
HDT (1.8 MPa)	°C	75
Elongation at Break	%	2.8
Tensile Strength	MPa	68
Tensile Modulus	MPa	4050

Test according to BS 2782:1976.
1MPa = $1MN/m^2$ = $1N/mm^2$ = 10.2 kgf/cm^2

Packaging
Crystic Gelcoat 0209 KH is supplied in 25Kg kegs and 200Kg drums.

Storage
Crystic Gelcoat 0209 KH 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.

Version 3 : February 2013

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