AQU SAN GLACIER WHITE GELCOAT (S)

Technical Datasheet

PRODUCT CODE: C410031

AQUAGUARD® Sanitaryware Glacier White is a specially developed high performance gelcoat for sanitaryware applications. The major features of this outstanding gelcoat are:

- Blue toned white colour to approximate the white colour of sanitary grade acrylic sheet.
- With appropriate back up resin system (allnex casting resins) passes the Australian thermal cycle test standards and Australian sanitaryware standards (including stain resistance).
- Excellent application characteristics.

FEATURES

- Passes Australian Standards Thermal Cycling Tests.
- Blue toned white colour, approximating sanitaryware acrylic sheet colour.
- Excellent atomisation and general spraying characteristics Excellent flow/ levelling properties.
- Rapid air release
- Highly resistant to pre-release
- Good sag resistance
- Highly resistant to triping /wrinkling
- Excellent interlaminar adhesion
- High gloss retention
- High degree of flexibility and general toughness

BENEFITS

- Increased quality and longevity
- Close colour matching in bathroom situations
- Easy to apply with industry standard spray equipment
- Easier to control film thickness
- Minimises air entrapment
- Improved part quality
- Provides a more consistent film thickness
- Increased tolerance to application variability
- Incidences of delamination are minimised
- Superior appearance of article during its service life
- Improved resilience which reduces the occurrence of cracking

The features combine to facilitate production of high quality parts. Aquaguard Sanitaryware Gelcoat is available in other colours and is tintable. Refer to your local Allnex Composites Technical Representative.

RECOMMENDED CATALYST

We recommend using 2% Curox M200, Norox 9 or Butanox M50

APPLICATION GUIDELINES

Plan a course of action prior to starting. Ensure the gelcoat has been properly stirred prior to use. Position the correctly prepared and cleaned mould for easy access. Trigger the gun off the job. Apply the gelcoat evenly with overlapping strokes and to the correct thickness. This should ideally be achieved in 3 passes. Always use a wet film thickness gauge to measure an even coverage of 0.6 to 0.75mm (approx. 24 to 30 thou).

Recommended operating conditions:

Application Temperature Range	15 - 30°C
Catalyst Level (MEKP, 9% Active Oxygen)	1.5 - 2.5% v/w
Film Thickness (wet)	0.60 - 0.75mm (24 - 30 thou)

TYPICAL LIQUID RESIN PROPERTIES

PROPERTY	TYPICAL VALUE	TEST DETAILS
Appearance	White opaque viscous liquid	Visual
Viscosity C&P Brookfield	 260-320 cP 12000 - 19000 cP	 @ 23°C RVF 4/4 @ 25°C
Geltime (minutes)	10 - 14 (summer) 6 - 10 (winter)	Using 2.0% NR20 @ 23°C
Density	1.1g/cm^3	@ 25°C
Flash Point	31°C	Setaflash
Shelf Life	4 months	When correctly stored

Typical values: Based on materials tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

TYPICAL CAST PROPERTIES

PROPERTY	TYPICAL VALUE	TEST DETAILS
Hardness	40 - 45	CSN EN 59 Barcol Impressor (GYZ 934-1)
Density	1.16g/cm^3	ISO R1183
Volume Shrinkage	7-8%	ISO 3521
Flexural Strength	110 MPa	ISO 178
Heat Distortion Temperature	80 - 85°C	ISO 75 (1.8 MPa)

* fully post cured casting

Typical properties should not be considered as specifications.

STORAGE AND HANDLING

To ensure maximum stability and maintain optimum gelcoat handling properties, Aquaguard gelcoats and flowcoats should be stored in closed containers below 25°C, away from heat sources and sunlight. The product should be stored away from all sources of ignition. Stored gelcoat quantities should be kept to a reasonable minimum and used on a first in / first out stock rotation basis. Prolonged storage, or unfavourable storing conditions, may cause separation, therefore agitation of the gelcoat before use is recommended. Best if used within 4 months from date of manufacture.

STANDARD PACKAGING

Mild steel drums (230 kg)
Epon lined pails (24 Kg)

Always refer to the MSDS before use