

PRODUCT CODE: C410300

AQUAGUARD Clear Gelcoat is a pre-promoted thixotropic spray grade gelcoat developed primarily for use in sanitaryware applications. Aquaguard Clear Gelcoat is a premium product that is highly durable and exhibits excellent weathering and chemical resistance properties.

### FEATURES

- Good flow/levelling properties
- Excellent atomization and general spraying characteristics
- Rapid air release
- Highly resistant to pre-release
- Good sag resistance
- Highly resistant to tripping/wrinkling
- Excellent interlaminar adhesion
- Excellent UV resistance
- Good gloss retention

### BENEFITS

- Easy control of film thickness
- Easy to apply with industry standard spray equipment
- Minimal air entrapment
- Increased tolerance to application variability
- More consistent film thickness
- Improved part quality. Increased tolerance to application variability
- More tolerant to application variability
- Reduces the incidences of delamination
- Articles retain their original colour for longer
- Superior appearance during service life

### TYPICAL LIQUID RESIN PROPERTIES @ 23°C

Summer/Spray grade: contains chip

PROPERTY	TYPICAL VALUES	TEST DETAILS
Viscosity	7000-9000 (Summer)	Brookfield Viscosity (cP)
	7000-9000 (Winter)	
Geltime (minutes)	300-330 (Summer)	Cone and Plate (cP)
	270-300 (Winter)	
Flash Point	10-12 (Summer)	2% v/w NR20 MEKP)
	8-10 (Winter)	
Specific Gravity	31°C (Summer)	Seta Flash
	31°C (Winter)	
Shelf Life	1.1– 1.15 (Summer)	When stored in original closed container in the shade.
	1.1-1.15 (Winter)	

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 UNFILLED RESIN PROPERTIES

PROPERTY	TYPICAL VALUE	TEST DETAILS
Hardness	40-45	Barcol (GYZ 934-1) EN 59
Density	1.16gcm <sup>-3</sup>	ISO R1183
Volume Shrinkage	7-8%	ISO 3521
Flexural Strength	110 MPa	ISO 178
Heat Deflection	82-86°C	ISO 175 (1.8 MPa)

Cast resin was prepared as laid down in BS 3532 using 1% MEKP. Cured at room temperature for sixteen hours then post cured for two hours at 80°C followed by two hours at 100°C.

### APPLICATION GUIDELINES

Temperature	15-30°C
Catalyst Level (MEKP; 9% Active Oxygen)	1.5 – 2.5% v/w
Film thickness (wet)	22-32 thou.

General Applications: 0.55mm  
Sanitaryware Applications: 0.75mm

### ADDITIONAL INFORMATION

#### Swimming Pool Application:

During the development of AQUAGUARD® Gelcoats for FRP Swimming Pool applications, the products were tested and qualified to meet the requirements of Australian Standard AS1838, indicating suitability for use as a surface finish in FRP swimming pool constructions, utilizing standard salt water chlorination systems.

As part of this R&D program, well cured panels faced with AQUAGUARD® Gelcoats were also subjected to long term chlorine exposure tests, with continuous water temperatures up 32°C. Based on the resulting performance data, these gelcoats are regarded as suitable for use in FRP swimming pool and spa constructions, fitted with standard chlorination filter systems, and operating at ambient temperatures.

Although AQUAGUARD® Gelcoats have shown satisfactory performance in some commercial pool and spa constructions where intermittent water temperatures have exceeded 32°C – they are not recommended for use in elevated temperature pool or spa applications where the surface finish will be subjected to continuous, long term exposures to treated pool water above this temperature.

Irrespective of operating water temperature, the chlorine level should be maintained in the ideal range of 1.5 – 2.5 ppm, and a maximum level of 5 ppm should not be exceeded. pH must also be maintained in the ideal range of 7.2 – 7.4. AQUAGUARD® Gelcoats have not been qualified for use in applications involving the use of alternative filtration and sanitiser systems such as ozone generators and the like.

Note: Over time, with increased exposure to climatic/chemical conditions, some lightening of colour and reduction in reflective properties of the cured Gelcoat – may occur.

### STORAGE AND HANDLING

To ensure maximum stability and maintain optimum resin handling properties, Gelcoat should be stored in closed containers, away from heat sources and sunlight. The product be stored away from all sources of ignition. Stored resin 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.

### STANDARD PACKAGING

Mild steel drums  
Mild steel pails

Refer MSDS before use