NUTECH 333 WHITE GELCOAT (S)

Technical Datasheet

PRODUCT CODE: C430333

NUTECH WHITE GELCOAT (Spray) is a white, pre-accelerated unsaturated polyester spray gelcoat which has been developed on an isophthalic acid and neopentyl glycol polymer. NUTECH WHITE GELCOAT (Spray) has been formulated to give excellent durability and colour retention with superior water and chemical resistance.

FEATURES

- Pre-accelerated
- Excellent weathering
- Rapid air release
- Good flow properties
- Highly resistant to pre-release
- Good sag resistance
- High gloss retention
- Excellent atomisation and general spraying characteristics

BENEFITS

- Require only the use of a catalyst to start the curing process
- Improved article longevity
- Minimises' air entrapment
- Excellent levelling properties
- Improved part quality
- Provides a more consistent film thickness
- Superior appearance of article during its service life
- Easy to apply with industry standard spray equipment

SUGGESTED USE

NUTECH WHITE GELCOAT (Spray) is designed for use in all general purpose manufacturing where a high quality spray grade is required. Due to its superior water and chemical resistance properties NUTECH WHITE GELCOAT (Spray) is highly recommended for use in the manufacture of boats and yachts.

RECOMMENDED CATALYST

The use of 2% MEKP NR20 is recommended for all general purpose applications.

APPLICATION GUIDELINES

Plan a course of action prior to starting. Ensure the gelcoat has been properly stirred prior to using. Position the correctly prepared and cleaned mould for easy access. Trigger the gun off the mould. 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 guage to measure an even coverage of 24 to 30 thou (approximately 0.6 to 0.75mm).

Application Temperature Range:	15-30°C
Catalyst Level (MEKP: 9% Active Oxygen):	1.5 – 2.5 %v/w (volume of catalyst on weight of gelcoat)

TYPICAL LIQUID RESIN PROPERTIES

PROPERTY	TYPICAL VALUE
Appearance	White, Opaque liquid
Viscosity@ 25°C, Brookfield RVT 4/5	15000 – 18000 cP
Geltime@ 25°C 2% MEKP Curox NR20, (minutes)	10 – 14 (winter) 14 – 18 (summer)
Volatile Content	35 – 38 %
Shelf Life	3 months minimum at temperatures below 25°C and stored away from any heat sources and sunlight

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 RESIN PROPERTIES – BASE RESIN

PROPERTY	TYPICAL VALUE	TEST DETAILS
Hardness	40 BHU	Barcol (GYZ 934-1) EN 59
Density	1.15 g/cm³	ISO R1183
Heat Deflection	96°C	ISO 75
Flexural Strength	117MPa	ISO 178

STORAGE AND HANDLING

To ensure maximum stability and maintain optimum gelcoat handling properties, gelcoats should be stored in closed containers, away from heat sources and sunlight. The gelcoat 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.

STANDARD PACKAGING

Mild steel drums (225kg)

Always refer to the MSDS before use.