TECHNICAL DATA SHEET



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1. PRODUCT NAME & DESCRIPTION

Allied Clear Surfboard Laminating Resin

2. BASE MATERIAL

Unsaturated polyester

2. GENERAL DATA & PROPERTIES

Product Description

Intended Uses

Liquid Properties

Colour

Viscosity (Brookfield) @ 25°C Acid Value (mg KOH/g)

Solids Content

Geltime @ 25 °C using 1 phr MEKP

Origin Date: 17 December 2024, Version 1

Physical Properties Barcol hardness

Temperature of deflection (under load, 1.80Mpa)

Water absorption (24 hr)

Tensile strength Tensile modulus Flexural strength Flexural modulus

Storage

Allied Clear Surfboard Laminating Resin is a low-reactivity, rigid unsaturated polyester laminating resin.

Allied Clear Surfboard Laminating Resin is designed specifically for the manufacture of surfboards.

Allied Clear Surfboard Laminating Resin is a pre-accelerated resin (requiring addition of hardener only). Allied Clear Surfboard Laminating Resin is specially formulated to impart a very high degree of clarity to the laminate, and is UV-stabilized, allowing for improved weather resistance, and ensuring a good long-term appearance of the finished product.

Allied Clear Surfboard Laminating Resin is of a low viscosity, thus giving excellent glassfibre wet-out with minimal drainage. The low exotherm allows the resin to be used in the construction of thick laminates.

Clear - pale yellow

400 - 500 cPs

20 - 30

60 - 65 %

10 - 15 minutes

40 - 45

55 °C

42 mg

65 MPa

4550 MPa

102 MPa

4110 MPa

Allied Clear Surfboard Laminating Resin should be stored in closed opaque containers. Exposure to sun light or temperatures in excess of 20°C may lead to premature gellation even in the absence of peroxide catalyst. Storage at 20°C under ideal conditions should yield a shelf life 6 months at least.

1

2. GENERAL DATA & PROPERTIES (Continued)

Curing Characteristics @ 25°C

Allied Clear Surfboard Laminating Resin requires only the addition of a hardener (catalyst) to start the curing process. Ideally the resin should be allowed to attain a temperature of at least 20 °C (preferably 25 °C) before being mixed for use. Curing should not be carried out at temperatures below 15°C as this affects the cure characteristics of the product. Catalyst levels should range between 1 and 2 parts per hundred (by mass of resin). Laminates made with Allied Clear Surfboard Laminating Resin should be post-cured in order to achieve long-term performance and optimum properties. Therefore, laminates should be allowed to cure at ambient temperature for a period of 24 hours following release from the mould. Post-curing for a further 3 hours at an elevated temperature (70 – 80 °C) should then be carried out.

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2