PRP Corp Pty Ltd
Distributor of Polynt-Reichhold Products

Technical Data Sheet

K1017MV Laminating Resin
Vinyl Ester Resin

Description

- Clear, yellowish liquid resin,
- Vinyl Ester resin in styrene monomer,
- Shorter gel to cure interval, reduces stress cracking risk,
- Excellent chemical resistance,
- Very low foaming during cure,
- Tightly controlled medium reactivity, defined exothermic peak,
- Flexible, high HDT,
- Excellent water resistance.

K1017 resin is designed for spray and hand lay-up applications. Commonly used in manufacture of industrial parts with high chemical resistance, pipes, tanks, containers and marine parts. K1017 resin is ready to use, easy to spray and requires only the addition of the proper amount of an appropriate methyl ethyl ketone peroxide to cure.

Liquid Resin Properties

Specific Gravity (25°C)	1.03 to 1.10
Reactivity* (25°C, with 2.0% Andonox LCR-S)	15min to 25min
Viscosity (25°C Brookfield RVT, spindle No.2 @ 60 rpm)	250mPa.s to 450mPa.s
Exothermic Peak	140°C to 165°C
Styrene Content	42% to 45%

*Cure: It is recommended to recheck the gel time in the customer's plant as age, temperature, humidity and catalyst will produce varied gel times. This product is available in other reactivity variants.

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Cured Resin Properties

Tensile Properties ASTM D 638	Tensile Strength	80MPa to 95MPa
	Tensile Modulus	3200MPa to 3700MPa
	Elongation at Break	5% to 6%
Flexural Properties ASTM D790	Flexural Strength	120MPa to 150MPa
	Flexural Modulus	3300MPa to 3800MPa
Thermomechanical (HDT – cure 2hrs @ 80°C then 1hr @ 120°C)		100°C to 106°C
Barcol Hardness (@ 25°C)		38 to 42

Application

PRP Corp recommends Andonox LCR-S or alternatively, KP-9, as the catalysts to be used. The catalyst level should not exceed 2.5% or fall below 1.0% for proper cure, with 1.5% at 25°C being ideal. This product should not be used when temperature conditions are below 15°C (as cure may be adversely affected).

Each user must determine the suitability of this product to their particular application. PRP Corp is always available to assist in the proper selection of all Polynt-Reichhold products available for commercial use.

Storage Limitations

Uncatalyzed, this resin has a usage life of 6 months from date of manufacture when stored at 23°C or below in a closed, factory-sealed, opaque container, and out of direct sunlight. The usage life is cut in half for every 15°C over 23°C. Totes of product can have even shorter usage life (66% of the drum shelf life mentioned above).

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Disclaimer and Limitation of Liability

This datasheet contains data that is current and accurate to the best of our knowledge. Differing materials, substrates, environments, site conditions, and product storage, handling and application may affect results. Users should carry out spot-tests to determine each product's suitability for their particular purpose. This data sheet and the properties of the product may change without notice. It is the user's responsibility to ensure that this data sheet is the most up to date version. PRP Corp is not liable for any loss or damage resulting from incorrect, careless, or negligent use or storage of the product, including use of out of date product. Any liability arising from use of the product is limited to the replacement or purchase price of the product. Final determination of the suitability of the material for the use contemplated, the manner of use and whether the suggested use infringes any patents is the sole responsibility of the user.

Safety Information

For all safety and regulatory information, please contact PRP Corp for the most up to date Safety Data Sheet.

FOR INDUSTRIAL USE AND PROFESSIONAL APPLICATION ONLY. KEEP OUT OF REACH OF CHILDREN.

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