

Circalok™ 9154 FR Urethane Encapsulant

Technical Data Sheet

Circalok™ 9154 FR urethane encapsulant is a solvent-free, unfilled, two-component system designed for encapsulating and casting applications such as electrical cable encapsulation, general marine sealing and caulking, water-resistant roll coverings, waterproof fabric coatings and general purpose casting compounds.

Features and Benefits:

Low Stress – exhibits low shrinkage and stress on components as it cures.

Environmentally Resistant – provides excellent hydrolytic stability; cures to an abrasion resistant coating.

Durable – provides high physical properties.

Room Temperature Cure – suitable for curing at room temperature; may be heat cured to expedite cure.

Application:

Mixing – Thoroughly stir each component within its shipping container prior to mixing together. Transfer amount of Circalok 9154 FR A resin needed to a clean container. Add Circalok 9154 FR B hardener at a ratio of 50 parts resin to 100 parts hardener, by weight. Thoroughly mix components until uniform in consistency. Automatic meter/mix/dispense equipment may be used for high volume production.

Unless a closed-chamber mechanical mixer is used, air may be introduced into the encapsulant system during mixing. Evacuate air from encapsulant prior to application.

Applying – Apply encapsulant manually or by using automatic meter/mix/dispense equipment.

Curing – Allow encapsulant to initially cure for either 1 hour at 75°C or for 2 hours at 55°C, followed by 16 hours at 25°C. Depending on temperature of initial cure, complete cure will be achieved after 14 days at 25°C.

Shelf Life/Storage:

Shelf life of each component is six months when stored between 15-32°C in original, unopened container.

Typical Properties*

	9154 FR A Resin	9154 FR B Hardener	Mixed
Appearance	Amber Liquid	Colorless Liquid	Amber Liquid
Viscosity, cP @ 25°C	350	11,000	4000
Specific Gravity	1.20	1.05	1.06
Working Life, minutes @ 25°C 50 gram batch	–	–	15

*Data is typical and not to be used for specification purposes.



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Typical Cured Properties*

Hardness @ 25°C Shore A	90
Tensile Strength, MPa (psi)	15.33 (2223)
Elongation at Break, %	650

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Cautionary Information:

Before using this or any Parker LORD product, refer to the Safety Data Sheet (SDS) and label for safe use and handling instructions.

For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use.

Values stated in this document represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Support Center.

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