



ResinFormulators

INNOVATIVE MATTERS

RF 1141 A/B



RF 1141 is a two-part low-density, fast-set epoxy syntactic system. This product is thixotropic and can be used on vertical surfaces without excessive run out from the bond line. RF 1141 has a working life of 20 minutes and cures in six to eight hours at room temperature. The product was designed for edge close out and insert potting to meet high production throughput demand.

HANDLING PROPERTIES, TYPICAL

PROPERTY	RF 1141
Mix Ratio: by Weight*	100:10.5
by Volume	N/A
Mixed Color	Grey
Viscosity @ 77°F (25°C), cps	Thixotropic
Pot Life, 20 grams @ 77°F (25°C), cps	30 min
Specific Gravity @ 77°F (25°C)	.46 - .48
Cure Schedule	3-5 days @ 25°C or 1 hr @ 65°C

POPULAR FOR USE IN:



COMPOSITES



AEROSPACE

PHYSICAL PROPERTIES, TYPICAL CURED PERFORMANCE

PROPERTY	TEST METHOD	UNIT	VALUE
Compressive Strength	ASTM D695	psi	3800
Cured Density		Lb/ft ³	29
Shore Hardness		D	45

USES & APPLICATIONS

Designed for edge close out, insert potting and densification of honeycomb core structures.

SPECIALTY PACKAGING AND DISPENSING

Material can be supplied in Semkits and bulk configurations.

Case Study: Edge Close Out and Insert Potting for High Production Throughput Demand

An aerospace OEM customer needed a material which would be extremely lightweight while providing sufficient adhesion, compression and non-slumping properties for edge close out, insert potting, and densification of honeycomb structures. A product that would meet high production throughput demand and a room temperature cure profile was required. RF 1141 was created as a low-density syntactic epoxy system, with a 30-40 minute work life, 3000+ psi compression strength and .46-.48 specific gravity. The product is now qualified on satellite and commercial aviation programs.

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