August 1, 2018

ATR1000 A/B
Micro-Ultra Filler
Light Weight-Fire Retardant

DESCRIPTION

ATR1000 A/B is a rigid, light weight (low density) system which is fire retardant and classified "NO BURN" for the stringent requirements of the aerospace and aircraft industries. New technology and space age materials have made possible a weight reduction in applied materials of 30-35%. It is an ideal material for repair and surface finishing of interior composites when OEM regulations must be complied with. The chemical resistance of ATR1000 is excellent; the system will withstand the cleaning solutions used in routine maintenance. ATR1000 offers the user a smooth, creamy system with high physical properties and less added weight. ATR1000 is non-conductive, has excellent finishing properties and has excellent bonding and filling qualities with fiberglass, SMC, BMC, RIM, FRP, graphite and Kevlar® composites. It withstands vibrations and impact without loss of bond or surface webbing. ATR1000 can be applied by splining, squeegee, spatula or any flat type tool. Once set, it can be finished by mechanical or hand sanding or grinding. Decorative coverings are also workable; ATR1000 does not bleed out. The system can be used in temperatures up to 180ºC (365ºF).

USES

- Filling porosity and fiber impression in prepreg composites
- Filling porosity and surface blemishes on exterior composites
- Overhaul and refinishing on interior parts
- Surface filling on interior composites
- Renewing or repairing broken and cracked areas
- Many more areas of final fabrication and finish

HANDLING CHARACTERISTICS @ 25ºC (77ºF)

Mix Ratio (Parts-By-Weight or Volume)	100R:2H (Red Oxide BPO Cream Hardener)
Mixed Viscosity (100 gram mass)	Creamy Non-Sag Paste
Density	10 lbs/gal - 1.2 grams/cc
Work Life (100 gram mass)	4 - 6 minutes
Finish Schedule (100 gram mass)	12 - 15 minutes
Resin Color Choices	White or Black
BPO Cream Hardener Color Choices	Red Oxide, White, Black
Storage Temperature	40ºF - 80ºF
Storage Life (in unopened containers)	8 months from date of manufacture

PHYSICAL PROPERTIES

Tensile Strength (ASTM D-638)	1,887 psi
Flexural Strength (ASTM D-790)	2,790 psi
Flexural Modulus (ASTM D-790)	438,000 psi
Compressive Strength (ASTM D-695)	5,672 psi
Heat Deflection Temperature (ASTM D-648)	53ºC (128ºF)
Cured Hardness	77 Shore D
CTE (ASTM D-696)	1.8×10^{-5} in/inºF
Water Absorption (ASTM D-570) [24 hr immersion distilled water]	0.819%

Tested and qualifies to the requirements of 14 CFR 25.853(a)

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