

Supplied by:

AMBER COMPOSITES

Amber Composites Limited, 94 Station Road,
Langley Mill, Nottingham NG16 4BP
Telephone: +44 (0) 1773 530899 Fax: +44 (0) 1773 768687
E-mail: sales@ambercomposites.co.uk
Web: www.ambercomposites.co.uk

Technical Data Sheet

NO. 17 HIGH HEAT RESISTANT

RIGID

GRAY - BLACK – WHITE

0302

DESCRIPTION

No. 17 HIGH HEAT RESISTANT FILLER set-fast system has uses in aerospace, aircraft, automotive, tooling, manufacturing and final fabrication where potential exposure to elevated temperatures up to 230°C/446°F have to be tolerated either for short term or continuous periods. No. 17 offers the user a smooth workable paste with set-fast cure to expedite those applications for repair or finish. No. 17 can be applied with a squeegee, spatula or flat tool. The cured material can be finished by mechanical sanding, grinding, scraping, etc., to a feather edge. This filler has excellent adhesive and bond strength to fiberglass, SMC, BMC, RIM, FRP, epoxy, graphite and Kevlar. composites as well as aluminum, plaster and other substrates. No. 17 HIGH HEAT RESISTANT FILLER when cured and finished accepts virtually all types of coatings and decorative films without any blush or discoloration.

USES

- Aircraft interior panels
- FRP panels-filling cloth imprint
- Nose cone porosity
- Edge filling on honeycomb
- Many other applications
- Changes & repairs to vacuum form molds
- Drill fixtures, potting bushings
- Gel-coat repairs on production molds
- SMC mold porosity in molded parts

HANDLING CHARACTERISTICS @ 25°C/77°F, 100 gram mass

Mix Ratio (parts by weight) 100R/2H
Mixed Consistency..... Smooth Creamy paste
Work Life 4-6 minutes
Density..... 12.75 lbs/gal
..... 0.055 lbs/cu in
Finish Schedule 15 minutes
Color Gray, White or Black

PHYSICAL PROPERTIES

Ultimate Tensile Strength (ASTM D-638.91) 4074 psi
Tensile Elongation (ASTM D-638.91) 1.163%
Ultimate Flexural Strength (ASTM D-790.92)..... 7,080 psi
Ultimate Compressive Strength (ASTM D-695.91) 8,992 psi
Shrinkage (Cast Bar) (ASTM D-2566.86) 0.00982 in/in
Coefficient of Thermal Expansion (ASTM D-696-91) 25.4 x 10⁻⁶ in/in°F
Moisture Absorption (ASTM D-570.81)..... 0.149%
Cured Hardness..... 80 Shore D
Shelf Life (Stored At Ambient Temperature)..... 6 months

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NOTE: All high heat resistant systems typically exhibit a slight color change at the extreme end of the elevated temperature range when used in tooling repairs.

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MIXING INSTRUCTIONS

1. Stir contents of can thoroughly using a spatula or putty knife. Place the required amount of filler and cream hardener on a disposable clean surface.
2. Mix ratio: 100 parts paste to 2 parts cream hardener by weight, i.e. size of golf ball (paste) to a two inch strip of catalyst.
3. Set up time of mix at room temperature will be 5-10 minutes and may be adjusted faster or slower by increasing or decreasing the amount of hardener.
CAUTION: THE USE OF TOO MUCH HARDENER CAN CAUSE GUMMINESS IN THE FILLER.
4. After 15-20 minutes the filler may be filed or sanded to final finish.

CHEMICAL RESISTANCE GUIDE

ADTECH Ultra Filler No. 17 combines saturated and unsaturated Polyester resins of medium to high reactivity. As an aid to the user, chemical resistance evaluations were conducted, using a modification of ASTM 0543-60T.

PROCEDURE:

Samples nominally sized at 1/2" x 1" x 4" were immersed halfway in 4 ounces of reagent and stored for 12 months at ambient temperature. Reagents were swirled monthly, and specimens were rated every 4 weeks.

Rating Results:

Excellent, No Visible Attack

Benzene
Gasoline
Methanol
Mineral Spirits
Water (Distilled)

Good, Very Slight Attack

Acetic Acid (5%)
Citric Acid
Hydrochloric Acid (10%)
Nitric Acid (10%)
Sodium Hydroxide (5%)
Sulfuric Acid (10%)

Not Recommended

Acetone

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