

PRODUCT DESCRIPTION:

AA-BOND K5NA is a three-part thermal compound, cures at room temperature widely used for critical aerospace applications because of its superior ablative properties.

AA-BOND K5NA is smooth paste, trowellable compound is recommended by NASA for use on the solid rocket boosters that launch the Agency's Space Shuttles, and is specified for closeout and patching of the boosters' thermal protection systems.

AA-BOND K5NA cures at room temperature, and develops strong bonds to most metals, ceramics, glass and glass fabrics, and many rigid plastics. The fully cured compound has excellent dimensional stability over a wide temperature range, and provides superior low temperature mechanical and impact resistance, excellent resistance to weathering, ozone and moisture.

PRODUCT DESCRIPTIONS:

Appearance	Light Brown
Cure Type	Room temperature or Heat cure
Benefits	Room temperature and heat cure Bonds variety of metal substrates Heat resistant
Mix Ratio by weight	100/75/25 Resin/Hardener/Filler
Substrates	Metals, metal substrates, glass and glass fabrics, ceramics and many rigid plastics Etc.
Operating Temperature	-40 to 135 °C Filling voids, fairing out wires, tubing and other surface protrusions on hypersonic re-entry bodies, nose cones, and aircraft engines.
Typical Application	Cushioning, impact absorbing material around explosive charges.

UNCURED PROPERTIES:

Specific Gravity, mixed	0.60 ±0.06
Viscosity @25°C	Mixture: Thick Paste
Reactive solids contents, %	100
Pot Life	30 minutes

CURING SCHEDULE:

25°C (77 °F)	24-48 hours
65°C (149 °F)	3-5 hours

MISC PROPERTIES:

Shelf life	1 year
Hardness, Shore D	29
Tensile Strength, psi	250-450
Elongation, %	30-45

GENERAL INFORMATION:

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

HOW TO USE:

1. Carefully clean and dry all surfaces to be bonded.
2. Pour the container part B (hardener) into the container part A (resin) and mix until get a homogenous color. Then pour the container (filler) and mix until the filler is dispersed uniformly.
3. AA-BOND K5NA has a 30 minutes pot life after all the three parts are mixed.
4. Apply the mixed product to the prepared surfaces.
5. AA-BOND K5NA develops most of its major mechanical and structural properties after 24 hours at room temperature (overnight @ 25°C). Longer cures up to 72 hours maybe required for fully matured bonds. The mechanical properties can also be obtained more rapidly by curing from 3 to 5 hours at 65°C when higher cure temperatures are possible.

AVAILABILITY

This epoxy can be supplied in many different packages.

Atom Adhesives

Email: info@atomadhesives.com

5769 N Andrews Way, Fort Lauderdale, FL 33309

Phone: (888) 522-6742 - Fax: (877) 522-6742