



TECHNICAL DATA SHEET

TDS# 2041A

DATE: JUNE 2013

BACON INDUSTRIES

ELECTRICALLY CONDUCTIVE ADHESIVE CONDUCTING TWENTY/TWENTY

Bacon Industries offers two silver-filled epoxy adhesives for making electrical connections in applications where the high temperatures necessary to make soldered connections are detrimental to components. Because these materials are filled with silver, they also have relatively high thermal conductivity.

Conducting TWENTY/twenty is the most fluid of the two systems being self-leveling at room temperature and, therefore, easiest to apply.

RECOMMENDED MIXING AND HANDLING PARAMETERS

Adhesive	Conducting TWENTY/twenty
Activator	BA-66B
Parts by weight of activator required per hundred of adhesive	5.50
Work life at 77°F, minutes	60
Recommended cure ¹ , minutes/°F	2/200

TYPICAL PROPERTIES OF CURED ADHESIVE:

Color	Silver
Specific Gravity	2.7
Hardness, Shore D	87
Volume Resistivity, ohm-cm	0.002
After heat aging:	
160°F:	
3 months	0.002
6 months	0.002
200°F:	
3 months	0.020
6 months	0.060
Weight Loss after Six Months	
at 200°F, %	0.10
at 250°F, %	0.25
Bond Strength to aluminum, psi	
at -65°F	1900
at 75°F	1800
at 120°F	1900
at 160°F	2000
at 200°F	1200
Heat Distortion Temperature (264 psi), °F	161

(over)

INSTRUCTIONS FOR USE:

Mix well at room temperature, the contents of the adhesive container before removing material. For optimum mixing and mix ratio accuracy, we recommend that batch sizes be not smaller than 25 grams and that the weighing tolerances be within $\pm 5\%$. Add the designated activator to the preweighed adhesive and mix thoroughly. In some applications, warming the substrate to 120°F will aid the flow during application. Cure as indicated.

FOR INDUSTRIAL USE ONLY! WARNING!!

May cause injury to skin following prolonged or repeated contact. Use with adequate ventilation and avoid breathing vapor. DANGER! Activator BA-66B can cause eye injury and skin burns. Do not get in eyes, on skin or on clothing. In case of contact, flush immediately with plenty of water for at least fifteen minutes; for eyes get medical attention. See MSDS for more health and safety information.

SHELF LIFE:

The minimum shelf life of Activator BA-66B is at least two years when stored in unopened containers at an average temperature below 85°F.

Conducting TWENTY/twenty has a shelf life of two years when stored in unopened containers below 40°F or 3 months when stored in unopened containers at 85°F.

AVAILABILITY:

Conducting TWENTY/twenty is available in 1/4 lb (4 avoz) kits, as well as premixed and frozen.