

GENERAL DESCRIPTION

E20-201 is a new series of high bond-strength epoxy adhesives formulated for ease in handling and convenience of application for the end user. The availability of a wide range of viscosities, the adjustable flexibility, non-critical mix ratio and low toxicity of these unique systems make them ideally suited for a very wide range of industrial, structural and electrical-bonding applications.

E20-201 adhesive series yields high peel strength, excellent tensile-strength, along with outstanding thermal-shock, impact and vibration resistance. These high-performance epoxy adhesives exhibit outstanding physical, thermal and electrical insulation properties. E20-201 adhesive series offer adjustable flexibility. By varying the ratio of catalyst to resin, a rigid, semi-rigid, or flexible bond is obtainable. E20-201 adhesive series have been formulated in four different viscosity ranges in order to meet the most diversified requirements of high performance bonding applications.

E20-201A is a non-sag, thixotropic paste formulation with a caulking-like consistency for use on vertical surfaces, as a sealant or gap-and-void filler.

E20-201B is a medium-viscosity paste with moderate thixotropy, suitable for those applications where a stay-in-place adhesive is required.

E20-201C is a low-viscosity liquid with a syrup-like consistency suitable for those applications requiring a thin glue-line and self-leveling flow characteristics.

E20-201D is a very-low viscosity liquid with an oil-like consistency designed for those applications requiring an ultra-thin glue-line and maximum penetration into the pores of substrates being bonded.

APPLICATION

1. Prior to removing material from its shipping container, mix thoroughly.
2. Mixing Ratio Schedule (for the majority of adhesive applications, Schedule-b is used) [resin : catalyst]:
 - a) rigid formulation, 100:50
 - b) semi-rigid formulation, 100:100
 - c) flexible formulation, 100:150
3. Cure for 24 hours at room temperature or ½ hour to 1 hour at 66 to 71°C.

SPECIFICATIONS

HANDLING CHARACTERISTICS

Workable Pot Life, 100 g @ 25°C: 30 min.
Color: amber

PHYSICAL CHARACTERISTICS

Specific Gravity, 25°C / 25°C: 1.24
Tensile Strength, psi: 30,000
Flexural Strength, psi: 51,000
Expansion Coefficient, °C: 4.7×10^{-5}
Izod Impact, ft · lb / in: 4.0
Machinability: excellent
Thermal Shock, Mil I 16923: passes

ELECTRICAL CHARACTERISTICS

Dielectric Strength, volts / mil: 550
Dielectric Constant, 103 cycles: 3.11
Dissipation Factor, 103 cycles: 0.02
Volume Resistivity, ohm · cm: 1.1×10^{15}

TENSILE BOND STRENGTH @ 25°C

Steel to Steel: 3,000
Aluminum to Aluminum: 3,300
Copper to Copper: 1,500
Nylon to Nylon: 1,200
PVC to PVC: 750
Brass to Brass: 2,600
Teflon to Aluminum: 1,850
Glass to Glass, Natural Rubber to Natural Rubber,
Natural Rubber to Aluminum: substrate fails before bond failure

STORAGE AND HANDLING

Shelf Life : At least one year from the date of manufacture when storage in the original package at ambient temperature. Keep container closed when not in use. Store away from excessive heat and humidity.

AVALALABILITY and PACKAGING

Available for immediate delivery from stock in: Highly flexible transparent two compartment plastic pouch, each section is filled with premeasured component. Pouches are supplied in 10,20,50 gm size.
Premeasured , Qt, gallon, 5 gallon and 55 gallon.



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THIS PRODUCT IS SOLD FOR INDUSTRIAL ONLY, KEEP OUT OF REACH OF CHILDREN.

Read and understand all MSDS before use. Liquid uncured epoxy material may cause skin sensitization or other allergic responses. Prevent all contact with skin or eyes. If contact occurs, flush immediately with plenty of water and get immediate medical attention.

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made. In every case we urge and recommend that purchasers before using any product in full scale production make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own operation conditions. No representative of ours has any authority to waive or change the foregoing provisions but, subject to such provisions, our engineers are available to assist purchasers in adapting our products to their needs and to the circumstances prevailing in their business. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention governed by any patent, without the authority from the owner of this patent. We also expect purchasers to use our products in accordance with the guiding principles of the Chemical Manufacturers Association's Responsible Care® program.

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