

ET5115

Two-part Transparent Epoxy Adhesive

The ET5115 epoxy adhesive is a fast-curing adhesive that consists of two components and can be used at room temperature. It is commonly applied in the repair of mechanical equipment, automotive parts, sports equipment, hardware tools, hard plastics, and other materials. Once cured, it exhibits strong bonding capabilities along with resistance to acid, alkali, moisture, water, oil, and dust. Additionally, it demonstrates high temperature resistance and durability against aging.

FEATURE

- Good acid resistance, alkali resistance and chemical resistance.
- Good mechanical properties and electrical insulation properties.
- Can resist extreme shock, vibration and bending.
- Excellent high temperature resistance, low porosity, durability and bonding strength.
- Curing at low temperature or room temperature, with high speed and excellent adhesion.
- Suitable for thermal cycling
- Ideal for bonding on different substrates: metal, wood, plastic, rubber and many other.
- For maximum bonding strength apply adhesive evenly to both surfaces to be jointed
- Cure time on the really part will depend upon factors such as part geometry, materials to be bonded, bondline thickness and efficiency of the oven. Cure schedule should be confirmed with actual production parts and equipment

TYPICAL CURED PROPERTIES

Properties	ET5115
Bonding strength, MPa	10 ~ 11
Operating temperature, °C	-50 ~ 100
Shear Strength, cured at 50°C and:	
Within 2 hours, N/mm ²	4.5
Within 24 hours, N/mm ²	5.5
Within 72 hours, N/mm ²	5.5

TYPICAL UNCURED PROPERTIES

Properties	ET5115-A	ET5115-B
Appearance	Liquid	Liquid
Color	Transparent	Transparent
Viscosity, 25°C, cps	12,000 ~ 15,000	12,000 ~ 15,000

TYPICAL CURING PROPERTIES

Properties	ET5115
Surface drying time, mins	10 ~ 15
Fully curing time, *25°C, hrs	12

*Heat cure can be applied to reduce the curing time

DIRECTION OF USE

- It should be applied to a clean surface which is free of dirt, grease or mold release. In many cases, a simple solvent wipe is sufficient.
- Weight the correct proportion to within 2% accuracy and mix thoroughly together, scraping both the bottom and the sides of mixing container, until a homogeneous mixture is obtained.

STORAGE AND SHELF LIFE

The container should be stored in cool and dark place. The resin and hardener will become yellow under the sunlight. Replace the lid immediately after use. Keep without any possibility of wet when not using. Shelf life of this product is 24 months when stored below 14~34°C in original, unopened containers.

CAUTION

Some findings indicate a lack of potential for carcinogenicity with the compositions of this product by long term recurrent application to the skin. However, contact with skin is likely to produce mild transient reddening. It is important to remove adhesive from skin with soap and water thoroughly. **DO NOT** use solvents for cleaning hands. This resin is of moderate acute toxicity by swallowing. If swallowed, call a physician. Avoid contact with eyes. In case of contact, flush with water for at least 15 minutes and get medical attention immediately. For specific information on this product, consult the Material Safety Data Sheet.

The data contained in this bulletin is provided only as a guide for evaluation/consideration. These material characteristics are typical properties that are based on a limited number of samples tested in the laboratory. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any product or method. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide.