



Technical Data Sheet

Product Name: Polyurethane Adhesive

Model: CUBD-2

Character Description: Light red to dark red viscous liquid with special smell, soluble in isopropanol, toluene, acetone and other solvents.

Features & Applications:

CUBD-2 is designed for the structural and firm bonding of cast polyurethane elastomer with various metal surfaces in a wide temperature range. Compared with CUBD-1, it enhances the adhesive flexibility and is more suitable for hard and brittle adhesive substrate. Its unique features are same as CUBD-1 as follows:

- **Wide process temperature.** It can realize the firm bonding between cast polyurethane and the surface of various polar materials in the range of 20-120 °C. It fills the gap that various adhesives (such as 218) can only be bonded after activation above 100 °C. It widens the application field for polyurethane semi-prepolymer method to produce various mechanical adhesive products at room temperature or low temperature.
- **Excellent adhesion fastness.** It is suitable for bonding PU with aluminum, steel, cast iron (especially hard and brittle cast aluminum, cast steel, stainless steel, etc.) and other polar surfaces. It is especially suitable for dynamic high temperature and high shear resistance bonding. For example, it is used in polyurethane forklift tire, NDI polyurethane elastomer roller, large polyurethane heavy press rubber roller, aluminum alloy wheel hub (especially cast aluminum material), speed skate wheel and other places with high requirements for high adhesion and dynamic stability. Ensure that the polyurethane is firmly bonded without degumming before it is worn out.
- **With long pot life and without invalid.** If the product cannot be used up on the same day after brushing CUBD-2, it can be used up to 7 days without reducing the adhesive strength as long as the bonded surface is kept clean and free of dust and oil. At present, the general adhesive must be prepared and used up immediately, and it will become invalid after being placed for 24 hours. The common adhesive must be baked and activated at 100 °C, but the adhesive property will decline linearly after baking for more than 40 minutes, while the adhesive strength of CUBD-2 will not decrease significantly even after baking at 120 °C for 3 hours.
- **Low dosage.** Low viscosity and high wetting properties enable the adhesive surface to be completely wetted regardless of spray or brush operation.

User's Guide:

1. It is recommended to carry out necessary treatment on the bonding surface before painting CUBD-2. Generally, the surface should be roughened by sand blasting after cleaning. Note that the bonding surface should not pollute sweat, oil, etc., otherwise the bonding strength will be affected to certain degrees.
2. General products can be sprayed once, and surfaces with complex shapes can be sprayed 1-2 passes as appropriate. It is not recommended to spray more than 3 passes. Too thick adhesive layer is not conducive to the improvement of adhesive strength.

Handling & Storage:

Product should be stored in a cool, dry and ventilated environment away from sunlight, excessive heat and fire sources.

CUBD-2 has a certain irritant effect on skin and respiratory tract. If it contaminates skin during use, wash the skin with a large amount of water. If it is serious, see a doctor.

Package: 20kg/180kg in HDPE drum

Shelf Life: The unopened shelf life is 12 months from the date of manufacture.