

TONGXUE ADHESIVE -GLUE CATALOGUE



Anthony Young/Director

Foshan Tongli Building Materials Technology Co.Ltd.

Chongqing Tongxue Science & Technology Co., Ltd.

ADD: Business Mansion B1, XBV-Xiantao International Big data Valley, Yubei District, Chongqing, China

Whatsapp & Mobile: +86133330333903

Wechat:



Tel.: 0086-23-81150015

Email: info@adhesive-glue.com

Web: www.adhesive-glue.com

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7.9. Polyurethane Composite Adhesive J3003



Product introduction:

J3003 is a two-component micro-foaming polyurethane adhesive. The A component is mainly composed of various polyols, adhesion enhancers and fillers. The appearance is white to light beige yellow viscous fluid with certain thixotropic properties; component B Mainly for the polymerization of MDI, it is a dark brown transparent liquid.

Scope of application:

The adhesive is mainly used for the bonding of rock wool cleaning board (clean board) and color steel plate. This product is easy to use, because of its low viscosity, it is suitable for scraping in all directions, easy to operate. Because of its foaming property, the product is only applicable to the bonding of loose porous materials such as rock wool and foam to metal.

For PP, PE, PET and other common plastics, it is difficult to form a good bond. It can not be used directly. It needs to be surface treated and activated before bonding. Other types of plastics are difficult to determine accurately because of their variety, and the composition may be slightly different, resulting in different bonding effects. To use this product, please perform sample bonding beforehand to determine whether the adhesive is suitable.

Technical Parameters(the following parameters are tested at 25-28 °C)

Indicators	Component A	Component B	After mixing
Color	White to light beige	Dark brown	Beige
Density (g/cm ³)	1.68 ± 0.05	1.23 ± 0.05	1.57 ± 0.05
Viscosity (mPa·s)	8000 ± 2500	200 ± 40	
State	Slightly	Liquid	Slightly

	thixotropic fluid		thixotropic fluid
Mixing ratio (by weight)	4 : 1		
After mixed			
Valid period	30 - 40mins		
Recommended operating time	Within 40 minutes (ie from the start of mixing to the completion of coating)		
Construction environment requirements	5 -35 °C, humidity 0- 80 %		
Initial adhesion formation	5 - 8 hours (25 ° C) / 60 minutes (at 65 ° C)		
Completely cured	4-5days (normal temperature) / 24 hours (after 60 minutes of incubation at 60 ° C)		
Shear strength (MPa)	5-7MPa (60°C for 60 minutes, 25°C for 3 days)		
Honeycomb roller peel strength	Greater than 30N		
Hardness (Shao D)	/		
Applicable temperature range	-35°C to 55°C		
Environmental testing (VOC emissions)	GB18538 / TB 3139		
Note : The standard cited in the above physics test : GB/T 7124-1986 Adhesive stretch and shear strength measurement method (metal to metal)			

Precautions:

1. Stir the A component as appropriate before mixing.

2. The amount of adhesive should not be too much, so as to avoid accelerated curing due to exothermic reaction, shorten the pot life, and make the unused glue quickly thicken and solidify in the barrel, resulting in waste.

3. In the bonding process, the free water should never be contacted. The water will cause the polyurethane to generate gas, which will cause foaming, which will lead to the decrease of strength, which will affect the bonding quality. If the air humidity is too high, it should also pay attention to whether or not foaming occurs. Stop using; if the substrate to be adhered has water or moisture, please wipe it or dry it before continuing to use it.

4. J3003 can be used at lower temperatures. The curing speed is slower at 10 °C (if you want to speed up the curing speed, it can be heated and cured); it can also be heated and cured, 60 °C curing time 50--60 minutes, 80 °C curing time For 15-20 minutes.

5.The bonded substrate must be surface treated: degreasing, drying, dust removal (and other contaminants), rust removal, such as: must be sanded before use to remove the oxide film on the surface of the aluminum, and to be Pay attention to timeliness; or purchase epoxy-coated aluminum sheets; if conditions and requirements can be anodized, primer or anodizing can significantly improve bonding strength and durability.

6.J3003 must be mixed according to the mass ratio A:B=4:1, and mix evenly (the A and B adhesive are mixed and the color is no longer changed). The machine speed should not be too fast when stirring. It is recommended to use a speed mixer and the speed is controlled at 100r/min. Then, the evenly mixed gel is coated, smoothed on the required plate with a scraper. The amount of glue is 0.3-0.4KG per square meter.

7. The uncured adhesive can be removed by special cleaning agents such as acetone and butyl acetate. The cured adhesive can only be removed by mechanical methods or high temperature softening combined with mechanical methods.

8.The storage must be in a dry indoor environment, protected from light, and the original package should be sealed and protected from moisture after opening. If not, cover the cover immediately. Recommended storage temperature 15-35 ° C; avoid direct sunlight, high temperature, below 15 ° C, frost, humid environment

Storage method:

Weather it is afraid of freezing: Yes

Key points: Moisture proof

Storage temperature: at room temperature (recommended: about 25 degrees), when the storage temperature is too high, the reaction speed is fast after the glue is mixed, and the operation time is short; the temperature is too low, the viscosity is thickened, and the mixing and scraping are laborious.

Validity: 12 months under the original packaging.

Package:

Barrel: 24 kg (Part A), 6 kg (Part B)

1000 kg (Part A), 250 kg (Part B)

can be packed according to customer's specific requirements.