

Huitian® 917

Technical Data Sheet



Version: 202407

Huitian® 917 polyurethane adhesive is a one-component, black, low-viscosity, high-strength, low-odor polyurethane adhesive. The adhesive layer is elastomeric after curing, with good resistance to changes in temperature and stress. The product is suitable for manual gluing.

Typical Technical Data

(Real values may have deviations)

Color	Black
Density	1.35 g/cm ³
Solid content, ISO787	99.5%
Curing rate	See Figure 1
Tensile strength, ISO 527	6.2 MPa
Elongation at break, ISO 37	400%
Shear strength, ISO 4587	2.0 MPa
Temperature resistance	-40°C~90°C
Short-term working temperature (max. 1h)	120°C

Chemical Resistance

Huitian® 917 is generally resistant to fresh water, seawater, weak acids and weak alkali solutions, but is not resistant to solvents such as organic acids, ethanol, concentrated acids and concentrated alkalis.

Directions for Use

Huitian® 917 is suitable for assembly and bonding of windshield glass of engineering machinery cabs, cars, ships, etc., as well as bonding and sealing of some metal structural parts.

Before using the product, it is necessary to read the Material Safety Data Sheet for information on precautions and safety recommendations. Before using 917 on materials prone to stress cracking, please consult with the material supplier and perform substrate testing for verification; 917 is intended for experienced and professional users only. Tests must be conducted with actual substrates and application conditions before using the product, so as to ensure good adhesion to and compatibility with the material.

Directions for Curing

Huitian® 917 is a moisture-curing one-component polyurethane adhesive. Changes in temperature and humidity will affect its curing rate; the lower the temperature, the slower its curing rate.

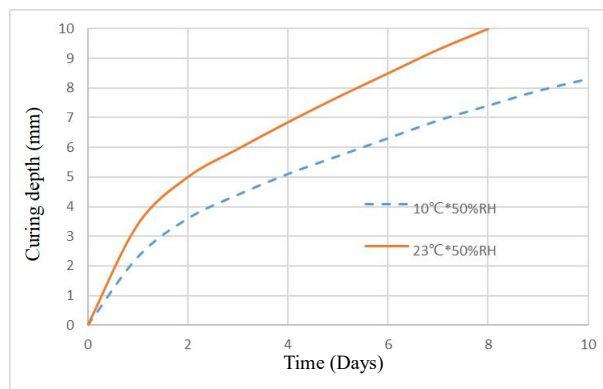


Figure 1

Application Method

Surface Treatment

The substrate to be bonded must be dry and free of oil, dust, grease and other contaminants. Thoroughly clean the new glass and body paint coat with 8902, and check whether the bonding material is intact and free of any damage. If new or changed substrates are involved, please contact the manufacturer for verification to ensure reliable bonding.

Primer Application

Apply primer to the cleaned substrate surface with a primer applicator. Start gluing after the primer evaporates and dries. Before application, select a primer agent suitable for the actual substrate and application conditions according to Huitian's primer program. Then apply the primer according to the primer application requirements.

Gluing

It is recommended to glue with equipment (such as pneumatic and electric glue gun or equipment with pumps). In order to ensure a uniform thickness of the bonding layer, it is recommended to form a triangular adhesive shape (as shown in Figure 2).

The optimal operating environment conditions are: temperature 20~30°C, 50%~70%RH; note that the viscosity of the product will increase at low temperature. The open time will be significantly shortened under high temperature and high humidity; if the glue is already tack-free, please do not conduct assembly and bonding.

During gluing and curing, avoid contact with chemicals containing hydroxyl groups, amino groups, etc., which can cause polyurethane adhesive to not cure or incompletely cure.

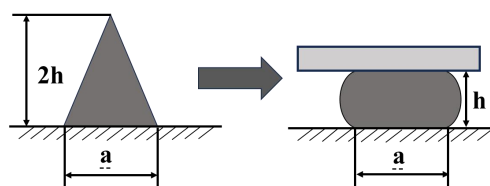


Figure 2



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Storage

Unused adhesive should be immediately sealed for storage. When used again, if there is a small amount of crust on the seal, just remove it, which will not affect the normal use of the product. During storage, a small amount of crust may appear at the opening, which can be removed for normal use and will not affect the performance of the product.

Cleaning and Removal

Uncured 917 can be cleaned and removed with special cleaners or other suitable solvents and tools of Huitian. Once cured, it can only be removed mechanically. If skin on, for example, hands is contaminated, clean up immediately with a towel dipped in ethanol or a suitable industrial hand sanitizer. To avoid burns, do not use solvents on skin.

Health and Safety Information

Before operating this product, it is necessary to get familiar with its hazards, proper use and disposal, and other relevant information. The following information may be useful: Material Safety Data Sheets (MSDS) and product classification marks. For more detailed information, contact your sales representative or technical service representative.

Note:

The data in this document were obtained under laboratory conditions. Due to differences in the operating environment, the user can refer to these data and operating conditions for analysis and testing. Huitian does not guarantee the sale of products or the use of the products under specific working conditions and does not accept any liability for direct, indirect or incidental damage. If users encounter any problems in the process of use, please contact the technical service department of Huitian New Material and all assistance will be provided.

Storage & Transportation

Recommended transportation environment	Optimal environment: 5~25°C, <70%RH; avoid sunshine, rain, humidity, impact, and extrusion of packing.
Recommended storage temperature	5~25°C
Storage environment	Cool, dry
Shelf life	9 months

If the storage environment temperature is exceeded, there may be a risk of shortened shelf life. (Shelf life is less than 9 months at a storage temperature of 25~35°C, and less than 6 months at a storage temperature of 35~40°C)

Packing Specification

300 ml/cartridge; 400 ml/cartridge

Cautions

Keep away from children for storage.

If the eyes are accidentally exposed to the product, rinse immediately with water, and seek medical attention.

It is recommended to use the product in a well-ventilated place.

Please consult the MSDS of the product for safety information.

Waste Disposal

If not polluted by other substances, the waste can be stacked in landfill in principle and will not pollute water quality. Since the product can be burned, the waste can be disposed of in a waste incineration plant. Undoubtedly, it is necessary to abide by the environmental regulations of the local government.



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