TECHNICAL DATASHEET: APP 922

PRODUCT DESCRIPTION

APP 922 is a one-component, high-thixotropy, non-flowing, solvent-free, low-odour, UV-resistant polyurethane adhesive. The product is eco-friendly, has moderate viscosity and good thixotropy, which makes it easy to apply by hand. It features good weatherability and resistance to black water flow, and the adhesive layer is elastomeric after curing, with good resistance to changes in temperature and stress. The product can be sprayed and sanded, is non-corrosive, and does not sag during facade and overhead application. It bonds to various substrates, and has noticeably better resistance to black water flow than general glass gap-filling adhesives.

TECHNICAL PARAMETER

Colour	**Black**
Density	1.33 g/cm3
Tack-free time	20~50
Solid content, ISO787	99.5%
Curing rate	See Figure 1
Shore A hardness, ISO 48-4	42
Adhesion	100% cohesive failure
TVOC,VDA277	≤50 ppm
Tensile strength, ISO 527	3.0
Elongation at break, ISO 37	500%
Shear strength, ISO 4587	2.0 MPa
Temperature resistance	-40°C~90°C

CHEMICAL RESISTANCE

APP 922 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.

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DIRECTIONS FOR USE

APP 922 is specially designed for caulking and sealing passenger car windscreens, providing weather sealing and resistance to black water flow. Before using the product, it is necessary to read the Material Safety Data Sheet for information on precautions and safety recommendations. Before using APP 922 on materials prone to stress cracking, please consult the material supplier and perform substrate testing for verification; APP 922 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

APP 922 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.

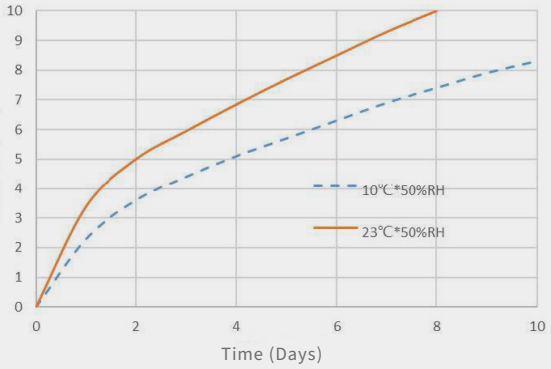

Figure 1

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 APP International 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 the APP primer programme. Then apply the primer according to the primer application requirements.

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GLUING

Application with equipment (such as a pneumatic or electric glue gun) is recommended.
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 adhesive is already tack-free, do not proceed with assembly and bonding.
During gluing and curing, avoid contact with chemicals containing hydroxyl groups, amino groups, etc., which can cause the polyurethane adhesive to cure incompletely or not at all.

STORAGE

Unused adhesive should be resealed immediately.
When reusing, if there is a small amount of crust at the nozzle, simply remove it; this 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 922 can be removed with APP special cleaners or other suitable solvents and tools. Once cured, it can only be removed mechanically. If skin (e.g. hands) is contaminated, clean immediately with a towel dipped in ethanol or a suitable industrial hand sanitiser. To avoid burns, do not use solvents on skin.

STORAGE & TRANSPORTATION

Recommended transportation environment	Optimal environment: 5~25°C, <70%RH; avoid sunshine, rain, humidity, impact, and crushing of packaging.
Recommended storage temperature environment	5~25°C
Storage environment	Cool, dry
Shelf life	6 months

If the recommended storage temperature is exceeded, shelf life may be shortened (shelf life is less than 6 months at a storage temperature of 25~35°C, and less than 3 months at a storage temperature of 35~40°C)

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PACKING SPECIFICATION

APP 922, 600 ml/cartridge

CAUTIONS

Store out of reach of children. 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 contaminated by other substances, the waste can, in principle, go to landfill and will not pollute water quality. Since the product can be burned, the waste can be disposed of in a waste incineration plant. Always comply with local government environmental regulations.

HEALTH AND SAFETY INFORMATION

Before using this product, become 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. APP International 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 during use, please contact the technical service department of APP International and all assistance will be provided.

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