

BETASEAL™ 1948US

Urethane Adhesive



Automotive Systems

Description

BETASEAL 1948US is a primerless to paint, one component, fast curing, high viscosity urethane adhesive. **BETASEAL 1948US** is suitable for stationary glass bonding when used with the appropriate primers. It is resistant to extended outdoor weathering without losing its adhesion and physical characteristics.

Application Technique

BETASEAL 1948US adhesive is applied in bead form with a pressurized flow gun or other suitable application system. Can be applied manually or robotically.

Safety Precautions

Avoid breathing vapors. If swallowed, call physician immediately. For eye contact, flush with water for 15 minutes and get medical attention. For skin contact, wash with soap and water. Refer to the Material Safety Data Sheets (MSDS) for additional details.

Storage

BETASEAL 1948US adhesive is a moisture-sensitive material and must be stored in airtight, dry containers at temperatures between 18°C (65°F) and 35°C (95°F). **Do not store outside or in direct sunlight.**

Storage Stability

The shelf life of this material is assured 6 months (from the date of manufacture) at temperatures not to exceed 35°C (95°F). The material is capable of withstanding a maximum temperature of 43°C for up to three days. As for low temperature stability, the adhesive is capable of withstanding at least three cycles of 17 hours at -29°C, followed by 7 hours of 25°C. Urethane adhesive and primer packages are marked with expiration dates.

Clean-up

If clean-up is required, the uncured material shall be readily removable from production topcoats, glass surfaces, glass inner liners and vinyl top materials with VM&P Naphtha or other solvent agreed upon at time of approval with appropriate engineering groups.

Packaging

Standard packaging is 55 gallon drums.

Physical Properties

Appearance	Black
Solids Content, Minimum, %	98
Density, Lb/gal (kg/L)	10.8 (1.30)
Flash Point Setflash, °F (°C)	>230°F (110°C)
Viscosity (Flow Rate), Initial at 23°C, 50%RH, seconds, [0.157" (4mm) orifice, 58psi (400kPa)]	50 – 100
Sag	None
Tack Free Time Maximum, minutes At 23°C and 50% RH	50

Cured Physical Properties

Hardness, Shore "A" Durometer, average, After 7 days at 23°C, 50%RH	70 ± 6
Elongation at Break, Minimum, % RT cure (ASTM D412 die C)	> 150
Tensile at Break Minimum, psi (kPa) After RT cure	> 1000 (6895)

Performance Properties Bonding Systems

Lap shear Minimum, psi (MPa) After 3 days at 23°C, 50%RH	> 580 (4)
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Contact your Dow Automotive Sales Representative for more detailed information.

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- b. Use in cardiac prosthetic devices regardless of the length of time involved ("cardiac prosthetic devices" include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass-assisted devices)
- c. Use as a critical component in medical devices that support or sustain human life; or
- d. Use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

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Toxicity and Safety Information

Read the Safety Data Sheet before using this material. Toxicity and safety information is included in the SDS.

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Headquarters

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