



Technical Data Sheet

Product: **Betaseal 1507**

Description and Application

Betaseal 1507 is one-component, high-viscous, humidity-curing polyurethane bonding/sealing compound for direct glazing with fast link up properties and short drive away time. In addition, it has a high shear modulus, very low volume resistivity and good high-frequency properties. Due to these characteristics of Betaseal 1507, a higher body stiffness and full compatibility to glass-integrated antennas can be achieved. It must be used in combination with a Glass Cleaner and Activator and a Body Activator

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! The utilization of Dow products diverting from the approved application have to be released in written form by the Technical Service department of Dow Automotive. **!**

Technical Data

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| <i>Basis</i> | Urethane Prepolymer |
| <i>Colour</i> | Black |
| <i>Density</i> | Approx. 1.34 g/cm ³ at 23°C |
| <i>Flash Point</i> | > 100°C |
| <i>Environmental temperature at application</i> | -5 – 40°C |
| <i>Material dispensing temperature</i> <small>(Temperature, at which material can be extruded, varies with type of dispensing equipment)</small> | 5 – 40°C |
| <i>Solid Content</i> | > 95 % |

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| <i>Working Time</i> | 15 minutes |
| <i>Tack-free Time</i> | Approx. 15 Minutes at 23°C/50% rel. Humidity |
| <i>Safe Drive Away Time</i> | 2 Hours (throughout operating window of - 5 to 40°C) |
| <i>Sagging Behaviour</i> | Good |
| <i>Cure Rate</i> | Approx. 3.3 mm in 24 hours at 23°C/50% rel. Humidity |
| <i>Ultimate Tensile Strength</i> (DIN 53 504) | > 5 MPa |
| <i>Percentage Elongation</i> | > 300 % |
| <i>Lap Shear Resistance</i> (EN 1465) | > 5 MPa (Height of Adhesive Layer: 2 mm) |
| <i>G-Modulus</i> | > 2 MPa at 10% strain of cured material |
| <i>Shore A Hardness</i> (DIN 53 505) | Approx. > 60 |
| <i>Specific Electrical Volume Resistivity</i> (DIN IEC 93 / VDE 0303 / HD429 S1) | $1 \times 10^9 \Omega\text{cm}$ |
| <i>Abrasion Resistance</i> | High |
| <i>Temperature Stability (of cured material)</i> | - 40 - 100°C |
| <i>Resistance to Chemicals</i> | Highly resistant to aqueous chemicals, petrol, alcohol and mineral oils Conditionally resistant to esters, ketones, aromatics and chlorinated hydrocarbons |
| <i>Bonding surface preparation</i> | All bonding surfaces must be free of dirt, dust, water, oil, silicon and grease. Priming is required prior to application unless a Primerless system is applied. Verify compatibility or consult our technical service department in case of uncertainty. |

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| <i>Processing equipment</i> | Hand, battery and pneumatic equipment |
| <i>Cleaning</i> | Uncured Betaseal 1507 residues can easily be removed with BETACLEAN 3500. Hardened Betaseal 1507 residues can only be removed mechanically. Immerse equipment in BETACLEAN 3350. |
| <i>Shelf life</i> | Short time storage temperature: -5°C to 40°C 9 Months (at 5°C to 25°C in unopened containers) See "use before" date printed on container. |
| <i>Containers</i> | 310 ml cartridge, 400 ml sausages |
| <i>Protection measures</i> | See health and safety data sheet. |
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