

ALPHA DP132

MOISTURE-CURE POLYURETHANE SEALANT



PRODUCT INFORMATION

Alpha DP132 is a high performance flexible polyurethane (PU) adhesive/sealant that is ideal for a wide range of automotive, marine and aerospace applications. The adhesive sealant creates a very strong bond between a range of materials such as carbon fibre, metals, GRP, plastics and rubbers.

Alpha DP132 is a single part, moisture-cure adhesive/sealant that requires no mixing or activating. It is available in white, grey and black, allowing the user a choice of colour to match the materials they wish to bond together for a more aesthetic bond.

It is particularly effective as an adhesive in applications where vibration is likely to occur (such as on a car, truck, boat, plane etc.) owing to its flexibility. Its excellent weathering resistance properties make it ideal for conditions where wide ranges of temperature, humidity, water (including saltwater) or UV exposure might be present.

KEY INFORMATION

- **Single Component**
- **Fast Cure**
- **Good resistance to tear and to weather**
- **Elastic compound which accepts movement**
- **Excellent resistance to chemicals & seawater**
- **Can be over painted when fully cured**

TYPICAL APPLICATIONS

Alpha DP132 is suitable for sealing in the following applications:

- Boat / ship building (decks, floors, panels etc.)
- Automotive industry (car body assembly, buses, containers etc.)
- Vehicle conversion, caravans.
- Window and door frame perimeter joints.
- Construction and building joints including floor and concrete joints.
- Bonding applications in metal constructions and for mounting vibrating parts.

PRODUCT CHARACTERISTICS

The following technical information and data should be considered representative or typical only. Therefore, the information should not be used for specification purpose.

Property	Data
Colour	Black / Grey / White
Base	Moisture-Curing Polyurethane
Consistency	Thixotropic Paste
Specific Gravity (20 °C)	1.17
Drying Time (23 °C and 50% RH)	Skin Formation: 60 Minutes* Cure Rate: ≥ 4 mm / 24 hours*
Temperature Resistance	-40°C to +90°C
Application Temperature	+5°C to +35°C
Compatibility with Paint (after curing)	Water based paints: Yes Solvent based paints: Testing required
Coverage (per 300ml cartridge)	15 metres (5mm bead) 3 metres (10mm bead)

*This time is shorter when temperature and relative humidity are higher. It is absolutely necessary to make sure that open time is not excessive. Otherwise, defective bonding could happen.

PRODUCT PERFORMANCE

The performance data presented here has been determined by Alpha Adhesives & Sealants Limited standard test methods and are average values that should not be used for specification purposes. Our recommendations on the use of this product are based on tests believed to be reliable. It is advised that users conduct their own tests to determine the suitability of the product for their specific application. Please note this product is not recommended for substrates like PE, PP, Teflon.

Test	Substrates	Results/Observations
Modulus at 100% Elongation (ISO 37)	N/A	Approx. 0.5 MPa
Elongation at Break (ISO 37)	N/A	> 600%
Modulus at Break (ISO 37)	N/A	> 1.4 MPa
Tear Strength (ISO 34)	N/A	Approx. 10 N/mm
Shore Hardness	N/A	Type A: ≥ 45
Sagging (ISO 7390)	N/A	< 3mm
Water and Salt Spray Resistance	N/A	Excellent
UV Resistance	N/A	Good

HANDLING & APPLICATIONS

The general application information presented here is based upon typical conditions determined by Alpha Adhesives & Sealants Limited's own testing. Our recommendations on the use of this product are based on methods believed to be reliable. It is advised that users conduct their own tests to determine the suitability of the product for their specific application.

Process Step	Guidelines
Surface Preparation	All substrate surfaces should be cleaned of any dust, grit, loose material, wax, grease and oil using Alpha Cleaner T559 TF.
Sealant Application	Application Method: 1. Joint edges should be protected using masking tape. 2. Cut the tip of the nozzle at a 45° angle to give a slightly larger hole than the gap that has to be filled. 3. Alpha DP132 can be applied by a pneumatic or hand caulking gun under a uniform pressure to extrude a continuous smooth bead. 4. After application, the sealant can be finished by using a wet spatula. The tape should be removed as soon as possible before formation of a skin.
Curing	The rate of cure in the joint is dependent on the ambient conditions, the assembled joint arrangement and the depth of the sealant between the joint faces.
Cleaning	Clean tools immediately after use with Alpha Cleaner T559 TF. Clean hands with a proprietary hand cleaner.

HEALTH & SAFETY INFORMATION

Alpha DP132 is classified as hazardous according to Directive EC 1272/2008. Please refer to the Alpha DP132 Safety Data Sheet for further health & safety information.

STORAGE

Alpha DP132 should be stored in its original container, in dry conditions and at temperatures between 5°C and 20°C. Alpha DP132 will keep satisfactorily for up to 12 months from date of manufacture if stored according to the recommended conditions.

PRODUCT AVAILABILITY

Product Reference	Pack Size	Container	Box Quantity
Alpha DP132	300ml	Cartridge	12

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