

Tradeseal MS: Polymer Sealant

Product Code: RC13103

Product Description

MS Sealant, a cutting-edge single-component joint sealant and robust adhesive, harnesses the power of MS Polymer for its chemical neutrality and exceptional elasticity. It's tailored for low-movement joints across construction, automotive, and marine sectors, delivering a resilient, flexible, and waterproof rubber seal.

This versatile solution excels in bonding and sealing within a vast array of contexts: from industrial and refrigerated trailers to commercial vehicles, cars, vans, caravans, and motorhomes. However, thorough paint compatibility testing is strongly recommended. In cases requiring subsequent painting, consider opting for FC40 Polyurethane Sealant (RC1302) for enhanced results.

Its application extends to sandwich panel manufacturing, sign making, fixing, composite panels, ducting, and vibrating metal constructions. Within the building industry, internally and externally, it adeptly bonds and seals elements prone to vibrations or deformations. Its exceptional adhesion spans across a diverse substrate range, including tiles, plaster/plasterboard, glass, timber, PVC hygienic cladding, most metals, polystyrene, stone, and concrete.

However, caution is crucial—it's not compatible with specific plastics like Polypropylene, Polyethylene, Polythene, or Teflon. Avoid contact with oils, plasticisers, bitumen, asphalt, silicone, and similar substances. Notably, it's not intended for use in toys or childcare articles that may come into contact with children's mouths.

Technical Data

| Property | Value |
|--|---------------------------------|
| Appearance | Thixotropic paste |
| Colours | Black, White, Grey |
| Density at 20°C | Black 1.27, Grey and White 1.34 |
| Sagging (ISO 7390) | < 2mm |
| Application Temp | 8 - 30°C |
| Skin formation time at 23°C and 50% RH | 20 - 30 min |
| Cure time at 23% and 50% RH | Approx 3mm after 24 hours |

The information contained on this product information sheet is to be used as guidance. The advice is given in good faith and does not constitute any guarantee or recommendation for suitability. The Rubber Company cannot be held liable for any damage caused by incorrect installation. We hereby reserve the right to change the technical information herewith without notification or prior agreement.



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Technical Data

| Property | Value |
|--|--------------------------------------|
| Shore A Hardness (internal method IT-20 after ISO 868 - 3 seconds) | >50 after 14 days |
| Modulus at 100% (ISO 37) | approx 1.0 MPa |
| Modulus at break (ISO 37) | >1.8MPa |
| Elongation at break (ISO 37) | >300% |
| Tear strength (ISO 34) | Approx. 10 N/mm |
| Volume loss (ISO 10563) | <2% |
| Temperature resistance | -40 to +100°C on fully cured sealant |
| UV resistance | Excellent |
| Compatibility with paints | Yes, but carry out tests beforehand |

Instruction For Use

Ensure that surfaces intended for sealing or bonding are meticulously prepared—they must be clean, dry (while MS Sealant can adhere to damp surfaces, its final strength might be marginally affected), and devoid of any dirt, dust, grease, or other impurities. If cleaning becomes necessary, utilise a cleaning solvent based on Methyl Ethyl Ketone (Butanone), or for more delicate surfaces, consider an isopropanol-based cleaner. Always verify compatibility with the substrate before using any solvent.

Dispense MS Sealant using a standard mastic gun, filling the joint, and employing a putty knife or similar tool dipped in soapy water for tooling. It's strongly advised against using solvent cleaners or white spirit for tooling purposes.

For adhesive application, either apply the sealant onto one surface in a wavy pattern and promptly join the two surfaces, or for a complete bond, apply MS Sealant on the surface and spread it evenly using a glue spreader before joining the surfaces. Smooth out the surfaces immediately to achieve a level finish.

When the adhesive is still wet, tools can be cleaned using a Methyl Ethyl Ketone (Butanone) based cleaning solvent.

It's crucial to maintain a bond line with this type of elastomeric adhesive, ensuring an adhesive layer thickness between 1mm and 2mm. Avoid completely compressing the bond line to zero.

Before using this product ensure that you have been supplied with and have read carefully the following information.

- The hazard label (complying with latest CDG/CPL regulations) applied to the container.
- Material Safety Data Sheet, RC01303.

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