

Three Bond 5222N Modified - Silicone Sealant

The product Three Bond 5222N is a single-component, solvent free and non-acid sealant based on modified silicone with low odour emission. Developed as a phthalate-free direct replacement for TB5222D, within a very short time it forms a rubber-like seal completely adapted to the surface structure of the fitting faces. Three Bond 5222N has been designed specifically as a seam sealant for the construction, automotive and general engineering industries to seal joints in metal fabrications. Being of modified silicone nature it has excellent adhesion to steel, aluminium and painted surfaces with the added benefit of being over-paintable.

1. Features

- Excellent corrosion and moisture resistance
- Good flexibility
- Excellent primerless adhesion even to slightly contaminated surfaces
- Extremely fast curing
- Over paintable including Lysine paint
- Acceleration of the curing process by heat and contact with the medium
- No shrinkage and no generation of corrosive gases
- No corrosion of metal or plastics
- Medium strength bonding - normal disassembly
- Phthalate free formulation

2. Properties

Properties	Result	Unit
Colour	Ivory	
Form	Creamy Paste	
Density at 25°C	1.40	g/cm ²
Touch dry time	60	min
Shore hardness	28 A	
Elongation	400	%
Tensile strength	0.9	MPa
Shear strength Al/Al	1.2	MPa
Shear strength Steel/Steel	1.2	Mpa
Effective temperature range	- 40 ~ 100	°C

3. Bonding Performance

Substrate	Result	Failure mode
Steel	1.2 MPa	Cohesive
Aluminium	1.2 MPa	Cohesive
Acrylic	0.5 MPa	Adhesive
Hard PVC	1.1 MPa	Cohesive
Nylon 66	0.9 MPa	Cohesive
Stainless steel	0.7 MPa	Adhesive
Polyester	1.0 MPa	Cohesive
PET	0.9 MPa	Cohesive
Phenolic resin	1.1 MPa	Cohesive

Curing: (25°C, 50% RH) x 7 days

4. Instructions

- Keep the original container tightly closed and store it in a dark, dry, sufficiently ventilated and cool place at a temperature of 5 ~ 25°C.
- In order to obtain optimal results, remove humidity, grease, dirt and other impurities from the fitting surfaces.
- The product may be applied manually from the cartridge in bead form. After application the surface can be finished with a tool to a variety of finishes.
- The formation of skin and the thickness hardenability of silicone varies depending upon the thickness of the layer, the ambient temperature and the relative air humidity.

Shelf Life

12 months unopened and stored at 10 ~ 25°C.

Packaging

320 ml cartridge.

Disclaimer

For Industrial Use Only

(Do not use for household purposes)

- The data contained in this report are obtained from experimental results, based on our test methods. We cannot assume absolute responsibility for accuracy and safety. Before using this product, use your own judgement to determine whether or not this product meets the requirements of the application and objectives. This includes the burden of responsibility and hazardous danger. The extent of the guarantee provides replacement for products, which are clearly unsatisfactory.
- We assume responsibility for neither injury nor property damages resulting from the misuse of this product.
- We do not assume responsibility without written notice or contract.