

Multi-Purpose Silicone Sealant 732 Datasheet

Product Code: RC13732

Product Description

A Multi-Purpose Sealant is a one-part silicone rubber; adheres to a variety of surfaces, has good resistance to weathering, moisture and temperature.

Technical Properties

Corporate Test Method	Property	Unit	Result
0176	Colour		White, black, clear or aluminium
0364	Extrusion Rate	g/minute	350
1377	Viscosity (low shear - 1/s)	Pa-sec	821
1377	Viscosity (high shear - 10/s)	Pa-sec	168
0098	Skin-over time	minutes	7
0095	Tack-free time	minutes	20

Technical Properties

CTM	ASTM	Property	Unit	Result
Mechanical properties, cured 7 days in air at 25°C (77°F) and 50% relative humidity				
0097B	D1475	Specific Gravity		1.04
0099	D2240	Durometer Hardness Shore A		25
0137A	D412	Tensile Strength	MPa	2.3
0137A	D412	Elongation at Break	%	540
0420		Volume coefficient of thermal expansion	1/K	1.12x10 ⁻³
Electrical properties, cured 7 days in air at 25°C (77°F) and 50% relative humidity				
0114	D149	Dielectric Strength	kV/mm	21.6
0112	D150	Dielectric constant at 100 Hz/100 kHz		2.8
0112	D150	Dissipation factor at 100 Hz/100 kHz		0.0015
0112	D150	Volume resistivity	Ohm.cm	1.5x10 ¹⁵

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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How To Use: Substrate Preparation

All surfaces must be clean and dry. Degrease and wash off any contaminants that could impair adhesion. Suitable solvents include isopropyl alcohol, acetone or methyl ethyl ketone.

Unprimed adhesion may be obtained on many substrates such as glass, metals and most common engineering plastics. Substrates to which good adhesion is normally not obtained include PTFE, polyethylene, polypropylene and related materials.

However, for maximum adhesion, the use of 1200 OS Primer is recommended. After solvent cleaning, a thin coat of 1200 OS Primer is applied by dipping, brushing or spraying. Allow primer to dry for 15 to 90 minutes at room temperature and a relative humidity of 50% or higher.

How To Apply:

Apply 732 Multi-Purpose Sealant to one of the prepared surfaces, then quickly cover with the other substrate to be bonded.

On exposure to moisture, the freshly applied material will "skin-over". Any tooling should be completed before this skin forms. The surface is easily tooled with a spatula. The adhesive/sealant will be tack-free in less than 45 minutes.

Cure Time:

After skin formation, cure continues inward from the surface. In 24 hours (at room temperature and 50% relative humidity) 732 Multi-Purpose Sealant will cure to a depth of about 3 mm. Very deep sections, especially when access to atmospheric moisture is restricted will take longer to cure completely. Cure time is extended at lower humidity levels.

Before handling and packaging bonded components, users are advised to wait a sufficiently long time to ensure that the integrity of the adhesive seal is not affected. This will depend on many factors and should be determined by the user for each specific application.

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