

TECHSIL® 1382 Black

TECHSIL® 1382 Black is a fast cure 1-part RTV silicone sealant specially formulated for applications requiring a combination of good adhesion, excellent physical and none-corrosive properties. The Oxime based cure system produces excellent physical properties and good adhesion particularly to plastics and many other substrates. Although not totally neutral the cured sealant is very low corrosive in nature.

Key Features

- Resistant to fuels
- Low corrosive
- Good primerless adhesion

Use and Cure Information

How to Use

TECHSIL® 1382 Black is ready for use. If supplied in cartridges it can be applied using either manual or pneumatic dispensers.

It can also be applied from bulk containers using conventional drum dispensing equipment.

Application and Cure

All surfaces to which TECHSIL® 1382 Black is to be applied should be clean, dry and free from grease, dirt and loose material.

Priming of surfaces is not normally required.

If it is being employed as an adhesive, it should be applied to one clean surface and the other clean surface brought into contact with it within 30 to 60 seconds.

The recommended thickness of the sealant joint is 1 to 3mm for optimum bond strength.

Joints should be left undisturbed for at least 24 hours, but preferably longer to effect sufficient depth of cure. Full cure requires 7 days.

Physical Properties

Property	Test Method	Value
Uncured Product		
Colour:		Black
Appearance:		Black Paste
Tack Free Time:		3 minutes *
3mm Cure Through:		<12 hours *
Extrusion Rate:		260 g / minute

* measured at 23+/-2°C and 65% relative humidity

Contact Details

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Cured Elastomer (after 7 days cure at 23+/-2°C and 65% relative humidity)		
Tensile Strength:	BS903 Part A2	2.00MPa
Elongation at Break:	BS903 Part A2	250%
Youngs Modulus:		0.50 MPa
Modulus at 100% Strain:	BS903 Part A2	1.15 MPa
Tear Strength:	BS903 Part A3	7.0 kN/m
Hardness:	ASTM D 2240-95	50 Shore A
Specific Gravity:	BS903 Part A1	1.4
Linear Shrinkage:		0.8%
Thermal Conductivity:		0.30 W/mK
Coefficient of Thermal Expansion:		
Volumetric		837 ppm / °C
Linear		279 ppm / °C
Min. Service Temperature:		-50°C
Max. Service Temperature:	AMB-035	20°C

Electrical Properties		
Volume Resistivity:	ASTM D-257	8.7E+15 Ω.cm
Dielectric Constant at 1MHz:	ASTM D-150	3.0
Dissipation Factor at 1MHz:	ASTM D-150	2.5E-3

Adhesion Testing		
Overlap Shear Strength:	ASTM D 1002	Kg/cm ²

*All values are typical and should not be accepted as specification

Customers are advised to carry out their own tests on clean, degreased substrates to ensure satisfactory adhesion is achieved.

Health and Safety

Material Safety Data sheets available upon request.

Packages

310ml cartridges. Arrangements can be made to supply in bulk containers.

Storage and Shelf Life

Expected to be 12 Months in original, unopened containers below 40°C.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their particular use.

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