



Scotch-Seal™

5300 General Purpose Sealer

Product Data Sheet

Updated : January 1994
Supersedes : December 1993

Product Description

A one component moisture curing general purpose polyurethane sealer that bonds and seals a wide range of substrates.

This product has been specially designed to skin rapidly and cure quickly;

it offers good adhesion without primer on substrates like glass, aluminium, steel, painted metal, wood, GRP, plastics (except polyethylene, polypropylene, plasticised PVC, PTFE) and concrete.

Thanks to its good elasticity, excellent resistance to tearing, ease of dispensing and good environmental resistance, Scotch-Seal 5300 can be used in a wide variety of applications.

Physical Properties

Not for specification purposes

Base	Synthetic elastomer	
Solvent	Aromatic solvents	
Flash Point	None	
Consistency	Gun grade, thixotropic paste	
Solids Content	94 %	
Specific Gravity	1.17	
Colour	Black/Grey/White	
Shelf Life	See cartridge for best before date.	

Performance Characteristics

Not for specification purposes

Elongation at Break	500%	
Shrinkage	6%	
Service Temperature	-40°C to +90°C (up to 150°C for brief period)	
Tensile Strength at Break	1.7 MPa	
Peel Strength	6.2 daN/cm	
Shear Strength	1.5 MPa	
Shore A hardness	50	
Coverage with one 310 ML cartridge	Bead Diameter 3.2mm Length 37.5 m	
	Bead Diameter 6.3mm Length 9.5 m	

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Directions for Use	Surface Preparation: Surfaces must be clean, dry and dust free. Wiping with a solvent such as 3M Citrus Base Industrial Cleaner, or methyl ethyl ketone (MEK) will usually remove oil and dirt. Tack Free Time: (20°C, 50% RH) 45 minutes.	Dispensing: Scotch-Seal 5300 has excellent working characteristics thanks to its non-stringing formulation. Use commercially available, power assisted or manual hand-operated guns, suitable for use with 1-piece metal cartridges. Apply between +5°C and +35°C.	Curing Speed: 4mm per 24 hours inward from exposed surface. Clean Up: We recommend the use of methyl ethyl ketone (MEK) or 3M Citrus Base Industrial Cleaner to remove uncured sealer residues. Once cured, the material can only be removed mechanically.
Durability	5300 offers excellent weathering and oil resistance.	5300 swells after petrol immersion but recovers initial performances after drying.	It also offers excellent resistance to mould growth.
Storage Conditions	Store product between 4°C to 25°C for maximum storage life. Higher temperatures reduce normal storage life.	Lower temperatures cause increased viscosity of a temporary nature. Rotate stock on a "first in - first out" basis.	Upon request, your 3M Specialty Tapes and Adhesives Sales Representative will be pleased to advise you of the anticipated shelf life of this product under the storage conditions in your plant.
Health and Safety Information	Precautions: May cause eye and skin irritation. Persons previously sensitised by isocyanates may experience an allergic skin or respiratory reaction. See information supplied by the manufacturer.	First Aid: Eye Contact: Rinse immediately with plenty of water and seek medical advice. Skin Contact: Wash immediately with soap and water.	For further information or a copy of the Material Safety Data Sheet please contact the Toxicology Department at the Bracknell Head Office on (0344) 858000.

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Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.



Specialty Tapes & Adhesives

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