Technical Data

5005A
SILICONE ADHESIVE SEALANT



AMBERSIL SILICONE ADHESIVE SEALANT 5005A is a high modulus, one part acetoxy curing sealant conforming to ISO 11600. In its uncured state, the sealant is a thixotropic paste which can be applied over a wide range of temperatures with no risk of slumping from normal joint widths. The product cures rapidly on exposure to moist air to provide a resilient rubber seal capable of repeated extension and compression during service with excellent resistance to aging, shrinkage, cracking and discolouration.

5005A is available in translucent or Black.

USES

Ambersil Silicone Adhesive Sealant 5005A offers good adhesion to various non-porous substrates such as glass, glazed ceramic tiles and Aluminium and is therefore recommended for producing formed-in-place gaskets, draught proofing of windows and doors, on-site and factory-channel glazing of flat or profiled glass, patent glazing, curtain wall sealing and for ceramic and plastic joints in sanitary ware, laboratories and hospitals where ease of cleaning and a high standard of hygiene are essential.

JOINT PREPARATION

The joint should first be checked to ensure that the dimensions comply with the drawing. The joint faces to be bonded must be free from frost, loose debris, dust, oil and grease. Non-porous surfaces should be cleaned with non-oily solvent (e.g. Ambersil Amberklene FE10). Flaking paint or lacquer should be removed.

JOINT DESIGN

The mean joint width should not be less than 4 times the total expected movement. For optimum movement accommodation:

(a) the joint depth or width should not be less than 3mm
(b) the joint depth should be 3mm up to a joint width of 6mm
(c) above joint widths of 6mm the joint depth should equal half the width.

BACK-UP MATERIAL

Back-up strips can be used to control the joint depth and minimise adhesion to the back of the joint. Expanded polyethylene in rectangular or rod form is recommended, but polyurethane and neoprene can also be used. Some rubbers contain plasticisers which may bleed into the silicone sealant and discolour it. A test on these backing materials should be made to ensure staining does not occur.

TYPICAL PROPERTIES

UNCURED COMPOUND

Appearance	:	Smooth easily extruded translucent paste
Sag and Flow	:	Nil
Specific Gravity	:	1.03
Skin over time	:	8 – 20 minutes
Cure rate	:	3 mm, 1 day. 5 mm, 3days.

CURED COMPOUND

Results are based on a 3mm sheet cured at ambient conditions for 7 days.

Hardness	:	18 Shore A, minimum
Elongation at break	:	450%, minimum
Tensile Strength	:	1.55 Mpa, minimum
Temperature Resistance	:	-60°C to +204°C (Short term 218°c)

PACKAGES

Ambersil Silicone Adhesive Sealant 5005A is available in non returnable 75ml cartridges.

LIMITATIONS

Ambersil Silicone Adhesive Sealant 5005A is not recommended in situations where abrasion and physical abuse are encountered. It should not be applied to bituminous substrates, substrates based on natural rubber, chloroprene or EPDM or on materials that bleed oils, plasticisers or solvents. Sealant 5005A is not recommended for bonding to porous substrates such as stone or marble or surfaces which could react with acetic acid, e.g. lime based cements and mortars and copper-based or Zinc coated (galvanized) metals. 5005A is unsuitable for aquarium applications.

STORAGE

Store the sealant in a cool dry place out of direct sunlight at temperatures not exceeding 30°C. Under these conditions the sealant in its original unopened package, has a storage life of 18 months.

FLAMMABILITY

Flash Point greater than 100°C (closed cup). Burns at high temperatures to form an ash without dripping.

CAUTION

On direct contact uncured sealant irritates the eyes. In case of contact, remove sealant, flush eyes with plenty of water and seek medical attention.

HEALTH AND SAFETY - Health and Safety sheet available separately.

TECHNICAL SERVICE - Ambersil provides a technical support service and maintains a constant programme of research and development. We are able to assist customers by specific product development to meet particular requirements.

MISREPRESENTATION ACT 1967 TRADE DESCRIPTIONS ACT 1968

The information given in this publication is based on our experience and reports from customers. There are many factors outside our control and knowledge which affect the use and performance of our products and for which reason no warranty is given, express or implied. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purposes. Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed.

CRC Industries UK Limited, Wylds Road, Bridgwater, Somerset, TA6 4DD

Tel: +44 (0) 1278 727200 Fax: +44 (0) 1278 425644

Web: www.ambersil.com E-mail: sales.uk@crcind.com