



5034A

TRANSPARENT SILICONE ADHESIVE SEALANT



5034A is a one part, high modulus, acetoxy cure silicone sealant. The product cures rapidly on exposure to air to provide a resilient rubber seal. In its uncured form the sealant is a thixotropic paste which can be applied over a wide range of temperatures with no risk of slumping in normal joint widths. The cured sealant has outstanding durability and is capable of repeated extension and compression during service.

USES

Ambersil Silicone Adhesive Sealant 5034A forms permanent, watertight bonds with glass giving effective results in aquarium applications. The sealant can also be used with ceramics, aluminium, steel, stainless steel and many plastics, including such applications as sealing curtain walls, glazing aluminium windows, painted and plastic coated wood windows, interior glass partitions and skylights and for sealing around air conditioning vents and other wall installations.

5034A may also be used in food processing applications under FDA regulations 21 CFR 175.105 and 175.300.

APPROVALS

5034A meets the requirements of the following standards/regulations:

- USDA 21 CFR 177.2600
- FDA 21 CFR 175.105 (subject to conditions)
- FDA 21 CFR 175.300 (subject to conditions)
- ASTM C1184, C920 Type S, Class 25, Use G and A
- TT-S-001543A & TTS-00230C

JOINT PREPARATION

The joint faces to be bonded must be free from frost, loose debris, dust, oil and grease. Non porous surfaces should be cleaned with a non-oily solvent (e.g.: Amberklene FE10 or Industrial Degreaser FG). Flaking paint or lacquer should be removed.

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

- The joint depth or width should not be less than 3 mm
- The joint depth should be 3 mm up to a joint width of 6 mm
- Above joint widths of 6 mm, 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 leach 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 SEALANT:

Consistency	: Smooth, easily extricable paste
Sag or slump	: 0. Maximum (ASTM D 2202)
Specific Gravity	: 1.06
Tack-free Time	: 30 minutes (ASTM C 679)
Curing time	: 5-7 days @ 23°C/50% RH in 6.4 mm section

CURED SEALANT:

Results based on sheet cured at 23°C/50% RH for 7 days.

Hardness, Shore A	: 28 (ASTM D 2240)
Elongation at break %	: 513 (ASTM D 412)
Tensile Strength (lbf/in ²)	: 480 (ASTM D 412)
Temperature resistance	: -48°C to 204°C

PACKAGES

Ambersil Silicone Adhesive Sealant 5034A is available in non-returnable 310ml cartridges.

LIMITATIONS

Ambersil Silicone Adhesive Sealant 5034A is not recommended for use where abrasion and physical abuse are encountered. It should not be applied to concrete or marble or to surfaces which could react with acetic acid, e.g. limestone, lime based cements and mortars and copper-based or Zinc coated (galvanized) metals. Avoid use on building materials which may bleed oils or solvents, including impregnated wood, some rubber gaskets or failed sealants and caulking compounds.

STORAGE

Store the sealant in a cool, dry place out of direct sunlight at temperatures not exceeding 27°C. Under these conditions the sealant, in its original unopened package, has a storage life of not less than 12 months.

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

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