



Fosroc® Hilastic 44

Flexible, one-component, acetoxy cure silicone sealant for glass, ceramics, aluminium

Uses

For sealing joints in:

- Glass and window construction
- Aquariums and display cases
- General bonding, sealing and insulation

Advantages

- Ready to use
- Excellent adhesion
- Fast rate of cure
- Flexible at extremes of service temperature
- Durable, tough elastic seal

Standards Compliance

US Federal Specification TT-S-001543a Class A.

Description

Hilastic 44 is a one-component, gun applied, silicone sealant which uses an atmospheric moisture activated, acetoxy cure system.

Hilastic 44 remains permanently flexible and weatherproof under a wide range of climatic conditions and has excellent adhesion to glass, ceramics, aluminium, stainless steel, paints and many plastics.

Properties

Data quoted typical for this product but does not constitute a specification.

Form:	Easy gunnable, non-slump paste
Colours:	Translucent and white
Physical or chemical change:	Chemical cure, acetic acid vapours emitted
Application temperature:	Above 5°C
Service temperature:	Minus 50°C - 150°C
Skimming time:	Approximately 10 minutes
Hardness:	25 - 30 (Shore A°)
Cure rate:	1 - 2 mm per day @ 23°C, 50% RH
Movement accommodation factor:	Maximum 30% total joint movement (± 15%)

Chemical resistance to occasional spillage:	Resistant to dilute acids and alkalis, soaps and detergents. Not resistant to organic solvents
Water immersion:	Suitable, once fully cured

Application Instructions

Preparation

Joint faces must be sound, flat and free of surface irregularities, and completely dry, clean and frost free. Oil, grease, etc may be removed using Solvent 10. For specific advice on surface preparation consult your local Parchem office.

Priming

Hilastic 44 has excellent adhesion to many surfaces without the use of a primer, however priming is always recommended, particularly for moving joints. This will greatly assist in ensuring the surface is clean and sound, as well as improve adhesion. The following primers are recommended:

Primer 9:	Used on PVC, fibreglass and many other plastic surfaces
Primer 11:	Used on glass, ceramics, aluminium and stainless steel

Consult Parchem for specific advice on priming and surface preparation on other materials.

Apply the appropriate primer to the joint surface and allow to dry for at least 30 minutes. Surfaces which have not been sealed within 8 hours of priming should be reprimed as described above.

For moving joints, the sealant should not be allowed to bond to the back of the joint - apply a polyethylene bond breaker tape or use Expandafoam* backing rod.

Application

Fit the cartridge of Hilastic 44 into any suitable cartridge gun, and gun firmly into the joint. Ensure that the sealant is forced well against all the joint surfaces to achieve good surface wetting and thus optimum adhesion. Guide the nozzle along the joint gradually, applying even pressure to the trigger. The joint must be filled completely at all points.

Tooling

Immediately after application the sealant should be tooled. Use a smooth, convex tool to produce both the required surface finish and to assist in further forcing the sealant into good contact with the joint faces.

Cleaning

All soiled equipment should be cleaned promptly, as cured sealant is very difficult to remove. Wash with, or soak in Solvent 10 - uncured Hilastic 44 is readily removed while cured material will swell and soften after some time and may then be removed with minimum effort.

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Limitations

Elastomeric sealants such as Hilastic 44 should not be applied in close proximity to bituminous materials or products based on reclaimed rubber, as these may contain components which can migrate into the sealant and result in staining or reduced performance. Hilastic 44 uses an acetoxymethyl curing system which releases acetic acid vapour during cure, and so is not recommended for use on concrete, zinc, copper, brass, iron and the core layer of some laminated glasses. Where surfaces may be affected by acetic vapour, other grades of Parchem® silicone sealants should be used. Hilastic 99 is recommended for use in joint sealing and pointing applications involving concrete or metal surfaces, while Hilastic 66 is recommended for use in kitchens, bathrooms and other humid areas.

Hilastic 88 is recommended for lap jointing applications involving Zinalume, Colorbond and other coated steel products.

Supply

Hilastic 44 is supplied in 300 ml cartridges.

Product Code

610302	Hilastic 44 Trans 300g (20/Ctn)
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Coverage

Approximately 15 metres of a 5 mm bead for a 300 ml cartridge or 6 metres of a 5 x 10 mm joint.

Storage

Shelf life

12 months in original unopened container stored in cool dry conditions.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.



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constructive solutions



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