

SILCOR[®] Epoxy Adhesive

Thixotropic Epoxy Adhesive & Surface Sealing Compound

Product Description

SILCOR[®] Epoxy Adhesive is a unique 100% solids, solvent-free, thixotropic, two-component paste epoxy system. It is multifunctional formulation meeting a wide range of building and civil engineering needs.

Product Uses

SILCOR Epoxy Adhesive is a high strength adhesive for concrete and masonry substrates. It may be used for:

- Concrete repair and joint reclamation on concrete decks, floors, culverts, bridges, reservoirs, sewage tanks, etc.
- Surface sealing of cracks prior to urethane or epoxy crack injection processes using GCP WATER-BAR[™] grout and packers.
- Embedding adhesive for GCP Flexible Sealing Tape to expansion joints in decks and reservoirs.
- SILCOR Epoxy Adhesive has excellent adhesion to most surfaces including concrete, masonry, brick, metal, etc.

Features

- 100% solids – solvent free
- Low sag, thixotropic paste consistency
- Dries tack free
- Excellent in-film cure with no shrinkage
- Excellent chemical resistance
- Application temperature range 5°C – 30°C

Contact your local GCP representative for any specific requirements.

Preparation

Surface must be clean, sound, dry and dust free. Apply SILCOR Epoxy Adhesive directly to the prepared substrate.

Application

Mix SILCOR Epoxy Adhesive carefully using a Jiffy or paddle mixer and low-speed electric drill. Avoid air entrapment during mixing. Mix only enough material that can be used within the recommended work time and prevailing ambient conditions.

Apply firmly to substrate by trowel or spatula to a minimum thickness of 1mm. This product may be applied to a maximum thickness of 30mm in a single application without occurrence of post-cure shrinkage or slumping.

Allow SILCOR Epoxy Adhesive to cure a minimum 24 hours before subjecting to stress or load.

Note: This product is not suitable for application to wet substrates or over water flowing cracks. Substrate and cracks must be dry.

Typical Properties

PROPERTY	TYPICAL VALUE
Colour (Mixed)	Grey
Mix Ratio (by volume)	1:1
Specific Gravity	1.45 g/ml
Solids Content	100%
Pot Life (@ 25°C)	50-60 minutes
Working Time (@ 25°C)	45 minutes
Initial Cure	12 hours
Full Cure	3 days
Compressive Strength	100 MPa
Flexural Strength	22 MPa
Bond Strength (concrete)	>15 MPa
Service Temperature	-20 to +50 °C
Hardness	>80 Shore A

Coverage

Consumption will vary depending on type of application. Theoretical yield of 4 lit set is 2m² at 2.0mm thickness (DFT) or approx. 0.3 – 0.4 litre/linear metre Flexible Sealing Tape

Clean Up

Clean up should be done as soon as possible after mixing using warm water with soap or detergent.

Packaging

SILCOR Epoxy Adhesive 20 litre kit and 4 litre kit.

Health and Safety

In case of spills and accidents, refer to the SDS of the products or when in doubt contact your local GCP representative. Always wear protective clothing, gloves and protective goggles when handling chemical products. For full information, consult the relevant SDS.

Storage and Shelf Life

Store in original packaging between 15° and 25°C, under cover and protected from all sources of heat, ignition, moisture, frost and direct sunlight.

Shelf life is twelve (12) months from date of manufacture when stored at these conditions in original, unopened packaging.

Limitations

Information contained in this document does not cover all possible application scenarios or imply product suitability for an application. Please contact your local GCP representative or the GCP Technical Department for further information.

Warranties

GCP and contractors recognised by GCP as experienced in the application of GCP products will provide warranties for individual projects. Warranty periods offered are dependent on project details and complexity. Requests for very long warranty periods may necessitate increased membrane thicknesses to ensure longevity. Contact your local GCP representative for further details.

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Last Updated: 2025-06-23

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