

EPOXY REPAIR MORTAR



SILPAIR-MT[®]

High strength epoxy adhesive and repair mortar

JV POLYMERS
innovative coating

DESCRIPTION

SILPAIR-MT® is a two-component, solvent-free, thixotropic, grey epoxy resin-based adhesive. It is stiff but easily workable and can be applied by trowel, spatula or knife. It can provide high mechanical properties; even can satisfy the special requirements of the structural reinforcement system. It is resistant to oils, salts, greases, many acids and alkalis and most corrosive media. It has minimum shrinkage during curing and can be used in temperature from 0~60°C.

ADVANTAGES

- Excellent adhesion properties
- High strength High adhesive strength and bond strength
- Thixotropic, suitable for overhead application
- Bonds to damp substrates
- Hardens with minimum shrinkage
- Solvent-free and Chemical resistant
- Easy to use

RECOMMENDED USAGE

SILPAIR-MT® can be used to repair fine cracks and spalls, fill gaps, grouting etc. It can be used as a thixotropic epoxy mortar. It can be used for bonding carbon fiber laminates

COVERAGE

One 6kg unit is sufficient to cover 1.4 m² at 3.0 mm thickness.

ORDINARY PACKAGING

SILPAIR-MT® is available in 6kg units.

- Comp. A 4.5kg/barrel
- Comp. B 1.5kg/barrel

APPLICATION PROCEDURE

SUBSTRATE PREPARATION & MIXING

Reinforcement may only take place if the substrate has an inherent tensile strength of at least 1.5 N/mm². The substrate must be free from substances which may impair adhesion (oil, grease, wax, etc.), and must be dust-free, clean, more or less dry and sound.

Mixing ratio: Comp. A: Comp. B = 3: 1 by weight

Mixing: Stir two components separately and then add component A to component B and mix thoroughly until the color is uniformly grey and free of any streaks. Mix slowly to minimize air inclusions. Place the mixed material in a different container in order to reveal any inadequacies in the mix.

APPLICATION

Use knife or trowel to make **SILPAIR-MT**[®] to the required level. When fills in a deep recess, it should be applied in layers. Repairs may be camouflaged is required by covering surface with cement powder before fully cure. When apply as adhesive for bonding carbon fiber laminates, apply adhesive uniformly onto the laminate. Within the time the adhesive remains workable, press the laminate into the layer of adhesive previously applied and bed it in uniformly with a pressure roller until adhesive is pressed out of the joint on both sides.

APPLICATION TEMPERATURE AND STORAGE

SILPAIR-MT[®] may be used from +5°C to +35°C Substrate temperature must be at least 3°C above dew point temperature. Comp. A and Comp. B may be stored for 1 year Store between +5°C and +25°C.

TEST DATA

Test Item	Specification	Result
Colour	/	Green
Mixed density at 25°C	g/cm ³	approx. 1.4
Flashpoint	°C	N/A
Compressive Strength at 7 days	MPa	≥70
Tensile strength	MPa	≥38
Tensile modulus of elasticity	MPa	≥2400
Bond to concrete	/	In excess of the cohesive strength of concrete
Bond to Steel	MPa	≥40
Pot life		
at 23°C	min.	≥50
at 30°C		≥40

CLEANING

Material which has not yet hardened can be washed off with special cleaner. Material which has hardened can be removed only by mechanical means.

Customer Service

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Technical Service

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