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epidermix 389

LOW VISCOSITY CRACK INJECTION COMPOUND

DESCRIPTION

Two component, solvent free, low viscosity modified epoxy.

USES

A crack injection compound for cracks between 0.10 and 0.05 mm in width. It is also suitable for gravity feed applications subject to crack width and depth, for better penetration consider the injection process. May also be used as primer for epoxy mortars and electrical encapsulation.

ADVANTAGES

- Stabilises cracks in concrete
- Insulates and tamper proofs electrical fittings
- See properties of dry film

SURFACE PREPARATION

Concrete should be clean and dry. Surfaces should be sound enough to provide sufficient strength for bonding of injection nipples and surface seal.

BONDING/PRIMING

Self-priming.

MIXING

Add the entire contents of the activator can to the base material. Stir for five minutes using a flat paddle. If only a small quantity is required, pre-stir the contents of each container using separate flat paddles. Pour two volumes of base component and one volume of activator into a separate, clean container. Mix together for five minutes using a flat paddle.

COVERAGE

Primer: 1 L/m²/1 mm thick

Crack: Estimation of cavity volume is necessary

PROPERTIES OF WET MATERIAL

Mixing ratio	2:1 by volume
Density	1.12 g/cm ³
Base colour	Light amber liquid
Activator colour	Brown liquid
Flash point	+120 °C
Dilution	Do not dilute
Consistency	Very low viscosity
Toxicity	Uncured material is toxic
Shelf-life	2 years from date of manufacture
Storage conditions	Under cover in cool conditions
Packaging	500 ml, 5 L kits
Fire resistance	Flammable

PROPERTIES DURING APPLICATION

Application:	
For injection	By gun
As a primer	By brush or roller
Pot-life @ 25 °C	5 hours – 500 ml
Volume solids	100%
Curing time @ 25 °C	Practical cure: 24 hours Full cure: 7 days
Coverage	Variable – 1 L covers 1 m ² to a thickness of 1 mm
Application temperature range	10 °C to 45 °C
Equipment clean-up	abe® super brush cleaner
Fire resistance	Flammable

PROPERTIES OF DRY FILM

Maximum service temperature	Dry: 60 °C Wet: 40 °C
Bond strength	Concrete will fail in tensile and shear
Compressive strength	60 MPa
Toxicity	Cured material is non-toxic
Colour	Brown

APPLICATION

Full details are contained in the 'Crack Injection Data Sheet'.

Note: **epidermix 389** is recommended for use in cracks from 0.10 to 0.05 mm. For wider cracks, see **epidermix 365**.

CLEANING

abe® super brush cleaner before dried/cured.

PROTECTION ON COMPLETION

Ensure no liquid spillage and no movement vibration until cured.

TEMPERATURE AND RELATIVE HUMIDITY

See "Properties of wet material" and "Properties during application".

MODEL SPECIFICATION

Low-viscosity epoxy crack injection compound and primer for epoxy mortars.

The crack injection compound shall be **epidermix 389**, a two component, low viscosity, solvent free epoxy compound applied in accordance with the manufacturers recommendations, **epidermix 389** is supplied in 500 ml and 5 L metal containers.

HANDLING AND STORAGE

This product has a shelf-life of 24 months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened.

HEALTH AND SAFETY

Wet **epidermix 389** is toxic and flammable. Always ventilate the working area well during application and drying. Avoid flames in vicinity. Always wear gloves and eye protection when working with the material and avoid excessive inhalation and skin contact. If material is splashed in the eye, wash with copious quantities of clean water and seek medical attention. Cured **epidermix 389** is inert and harmless.

When transporting by aircraft, ask for a material safety data sheet.

IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **a.b.e.® Construction Chemicals** endeavors to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot – because **a.b.e.®** has no direct or continuous control over where and how **a.b.e.®** products are applied – accept any liability either directly or indirectly arising from the use of **a.b.e.®** products, whether or not in accordance with any advice, specification, recommendation, or information given by the company.

FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements. **a.b.e.® Construction Chemicals** has a wealth of technical and practical experience built up over years in the company's pursuit of excellence in building and construction technology.

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