



Chem Coats (Pvt) Ltd.

ChemDermix 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 0.05mm in width. May also be used as primer for epoxy mortars and electrical encapsulation.

FEATURES & BENEFITS

- Stabilizes 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 four 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: 1l/m²/1mm thick
Crack: estimation of cavity volume is necessary.

APPLICATION

Full details are contained in the 'Crack Injection Data Sheet'.
N.B.: ChemDermix 389 is recommended for use in cracks from 0.10 to 0.05mm. For wider cracks, see ChemDermix 365.

CLEANING

ChemCoats Super brush cleaner before dried / cured.

PROTECTION ON COMPLETION

Ensure no liquid spillage and no movement vibration until cured.



PROPERTIES OF WET MATERIAL

Mixing ratio	4 : 1 by volume
Density	1.05 g/cm ³
Flash point	+120° C
Dilution	Do not dilute
Consistency	Very low viscosity
Toxicity	Uncured material is toxic
Shelf life	12 months from date of manufacture
Storage conditions	Under cover in cool conditions
Packaging	5l kits
Fire resistance	Flammable

PROPERTIES DURING APPLICATION

Application For injection As a primer	By gun By brush or roller
Pot life @ 25° C	5 hours – 500ml
Volume solids	100%
Curing time @ 25° C	Practical cure - 24 hrs Full cure – 7 days
Coverage	Variable – 1l covers 1m ² to a thickness of 1mm
Application temperature range	10° C – 45° C
Equipment clean-up	Chem Coats 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	Clear

IMPORTANT NOTE

The information given in this data sheet is based on current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no controls over methods of applications, site conditions etc. In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local **Chem Coats** representative.

TEMPERATURE AND RELATIVE HUMIDITY

See “Properties of wet material” and “Properties during application”.

MODEL SPECIFICATIONS

Low-viscosity epoxy crack injection compound and primer for epoxy mortars. The crack injection compound shall be **ChemDermix 389**, a two component, low viscosity, solvent free epoxy compound applied in accordance with the manufacturers recommendations, **Chem Coats Construction Chemicals**.

PACKAGING

ChemDermix 389 is supplied in 5l metal containers.

HANDLING & STORAGE

This product has a shelf life of 12 months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened.

HEALTH & SAFETY

Wet **ChemDermix 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 **ChemDermix 389** is inert and harmless.

RANGE OF PRODUCTS

WATERPROOFING SYSTEMS
INDUSTRIAL FLOOR SURFACES
PROTECTIVE COATINGS

PREPACKED REPAIR MORTARS
CEMENTITIOUS & EPOXY GROUTS
CONCRETE ADMIXTURES

SEALANTS
CRACK INJECTION
CONCRETE ADHESIVE