



SAINT-GOBAIN

epidermix® 318

**TWO COMPONENT EPOXY
ADHESIVE/REPAIR COMPOUND**



DESCRIPTION

Two component, solvent free, filled, polyamide cured epoxy.

USES

Repairing and patching defects in concrete, fabricating components and repairing defects in fibre cement products. epidermix® 318 is damp tolerant.

The viscosity of epidermix® 318 is sufficient to hold its place on horizontal and vertical faces.

SURFACE PREPARATION

Any surface to be repaired with epidermix® 318 must be clean and mechanically sound. The surface should be chipped to expose main aggregate and in the case of honeycomb, all suspect material must be cut out. The surface must be free of all debris prior to placing the compound.

MIXING

Set up equal volumes of Base and Activator side by side on a clean board. Do not take more than about 250 ml of each compound. Mix thoroughly with a trowel or spatula.

APPLICATION

Mixed epidermix® 318 should be pressed into place in the repair area using a small amount first to wet out the surface and then building up the required thickness. The viscosity of epidermix® 318 is sufficient to hold its place in soffit repairs and on vertical faces. If the volume is too big to repair in one placing, leave the contact surface rough to act as a key for a subsequent placing once the first one has set.

A final smooth finish may be obtained by trowelling off the surface of the still uncured epidermix® 318 with a water dampened steel trowel.

PROPERTIES OF WET MATERIAL

Mixing ratio:	1 base: 1 activator by volume or mass
Density (typical)	1,7 g/cm ³
Colour	Base: Off white Activator: Grey Mixed material: Grey – approximate to concrete
Finish	Trowelled to smooth finish with water wet steel trowel
Flash point	Nil
Dilution	Not to be diluted
Consistency	Each component is a heavy paste
Toxicity	Uncured material is toxic
Shelf life	2 years from date of manufacture
Storage conditions	Store under cover in cool conditions

PROPERTIES OF APPLICATION

Application by	Gloved hand and/or steel trowel
Pot life	60 – 100 mins/500 ml @ 25 °C
Volume solids	100%
Theoretical coverage	1 m ² /ℓ on smooth surface
Maximum recommended thickness per layer	15 mm
Curing time @ 25 °C	Touch dry: 2 hours Practical cure: 12 hours Full cure: 7 days
Overcoating time @ 25 °C	Min: 4 hours Max: 23 hours
Application temp. range	10 °C to 40 °C
Fire resistance of wet material	Non-flammable
Equipment clean up	abe® super brush cleaner

PROPERTIES OF CURED MATERIAL	
Maximum service temperature	Dry: 70 °C Immersion: 60 °C
Compressive strength @ 25 °C (ASTM C349 & BS prisms)	34 MPa in 24 hrs 53 MPa in 7 days
Tensile strength @ 25 °C	17 MPa
Lap shear on grit blasted steel	8 MPa using 2 mm bond line thickness
Shrinkage during cure	Negligible

CHEMICAL PROPERTIES OF CURED FILM	
Toxicity	Non-toxic after curing
Water resistance	Excellent
Solvent resistance	Resists, aliphatic, solvents, oils, petrol, diesel, fuel
Chemical resistance	Resists dilute inorganic acids and dilute alkalis

HEALTH AND SAFETY

Uncured epidermix® 318 must be regarded as toxic. Gloves should be worn at all times and care must be taken not to ingest any of the material by eating or smoking while working with the compound. If working in a confined space, provide adequate ventilation.

Clean tools with abe® super brush cleaner and use a little of this liquid to remove any splashes on the skin. Wash finally with soap and warm water. Cured epidermix® 318 is inert and non-toxic.

PACKAGING

epidermix® 318 is supplied in 200 ml, 500 ml, 1 litre and 4 litre kits.

HANDLING AND STORAGE

Epoxy compounds in their uncured state are toxic and prolonged skin contact can give rise to dermatitis. When handling epoxy compounds, use should always be made of disposable gloves and barrier creams. Involuntary habits such as face starching and spectacle adjustment must be avoided.

Similarly eating and smoking whilst or after working with epoxy must be avoided until the individual has washed up.

This product has a shelf life of 24 months if kept in a cool dry place.

IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst a.b.e.® endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot accept any liability for application – because a.b.e.® has no direct or continuous control over where and how a.b.e.® products are applied.

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.® has a wealth of technical and practical experience built up over the years in the company's pursuit of excellence in building and construction technology.

Please consult our website for our latest data sheets.

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a.b.e.® is an ISO 9001:2015 registered company
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