SAINT-GOBAIN

epidermix® 316

EPOXY TAR ADHESIVE/GROUT

DESCRIPTION

epidermix® 316 is a pour grade, solvent free, amine cured epoxy tar slot sealing compound. Designed for sealing of electric cables, signal switches and mechanisms placed under trafficable surfaces in concrete and asphalts.

USES

For the grouting in and maintenance of road traffic cables, signal mechanisms, inductance transmission loops and lighting systems set into saw cuts and cable slots in:

- Road traffic surfaces
- Airport runways
- Taxi ways
- Hard stands, aprons and cargo areas
- Airport runways and taxi ways recessed guide light channels
- Installation of automated gates, booms and barriers

ADVANTAGES

- Cold applied, no heating equipment required
- Resistant to certain solvents and chemicals
- Pourable and self-levelling
- Fast setting and curing time – minimises down time

SURFACE PREPARATION

Any surface to which **epidermix® 316** is to be applied to must be clean, dry and mechanically sound. If slot has been formed by means of saw cutting, all dust, dirt, laitance, slurry and water must be removed from the joint. The joint must be flushed out with clean water, and standing water must be flushed out with dry, oil free compressed air and allowed to dry.

When applying **epidermix® 316** to steel, aluminium and coated alloys, the surface must be clean, free of rust, oil, millscale and any other foreign matter. For maximum adhesion bare metal surfaces should be abraded by means of sand blasting.

DESIGN CRITERIA

Encapsulated cable slot, and guide light cavity – No movement

epidermix® 316 can be applied directly into the prepared saw cut or cable slot, fully encapsulating the cable when no movement is anticipated.

Isolated cable slot and guide light cavity – Movement

When cables are required to be isolated from the **epidermix® 316** slot sealing compound. The cable should be laid loose at the bottom of the slot or recess and covered with **abe® duracord®** that is a minimum of 25% bigger than the slot. The **epidermix® 316** is then applied over the backing cord to fill the slot or cavity.

PROPERTIES OF WET MATERIAL	
Mixing ratio	1:1 by volume Base: Activator
Specific density	1.17 (Mixed)
Colour: Base Activator Mixed material	 Black Clear amber Black
Flash point	100 °C
Toxicity	Uncured material is toxic
Dilution	Do not dilute
Application temperature	10 °C to 40 °C
Curing time	Initial set: 1 hour Full cure: 7 days
Service temperature	10 °C to +80 °C
Volume solids	100%
Application by	Pouring or spreading
Pot life	30 minutes @ 25 °C 20 minutes @ 35 °C

JOINT GEOMETRY

To ensure that **epidermix® 316** performs correctly the slot width should be designed as follows:

Slot width	Depth
6 – 10 mm	10 mm (min)
10 – 20 mm	width = depth
> 20 mm	20 mm (maximum)

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PROPERTIES OF CURED MATERIAL	
Water resistance	Excellent
Solvent resistance	Will resist hydrocarbons, fuels: petrol and aviation fluids, oils and aliphatic solvents.
Chemical resistance	Resists dilute inorganic acids and alkalis
Water tainting	Will taint potable water
Toxicity	Cured film is non-toxic but must not be used in contact with foods or potable liquids
Shore A hardness	90 after 7 days
Compressive strength	18 MPa after 7 days

PROTECTION OF ADJACENT SURFACES

Masking tape applied to the adjacent slot edges will protect them from over run, spillage and smearing and enable slots to be finished to a neat line. The masking tape should be applied after the slot or light cavity has been prepared, prior to the product being poured. The masking tape must be removed after all finishing/tooling has been completed but before the material has set.

BACK UP MATERIAL

If the geometry of the slot or cavity dictates that a backing rod is required or if the cable needs to be isolated from the sealing compound, insert the appropriate size **abe® duracord®**, into the slot to the correct depth.

MIXING

epidermix® 316 must be mixed in the correct proportions 1:1 and packs should not be split or diluted. Separately stir the contents of both containers well, then add the activator to the base component and mix thoroughly with a slow speed drill or mixer with a flat paddle.

COVERAGE

In slots and cavities: By volume, dependent on slot or cavity geometry.

As an adhesive: Spreading: 1ℓ/m²/mm thickness.

APPLICATION

After mixing pour the **epidermix® 316** into the prepared slot utilising an appropriate pouring device with spout, nozzle or funnel.

If required the surface of slot or cavity can be smoothed of with a clean putty knife or spatula, as soon as the **epidermix® 316** has been poured.

CLEANING

Tools and mixing equipment should be cleaned immediately after use and before the material has set, with **abe® super brush cleaner** followed by washing with soap and water.

MODEL SPECIFICATION

Two component, pour grade, solvent-free, epoxy tar, slot sealing compound.

The sealing compound will be **epidermix® 316** a two component, pour grade, solvent free, amine cured epoxy tar, applied in accordance with the recommendations of **a.b.e.®**.

PACKAGING

epidermix® 316 is supplied in a 2 ℓ containers.

HANDLING AND 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 AND SAFETY

Wet **epidermix® 316** is toxic. Always ventilate the working area well during application and drying. Avoid flames in the vicinity of uncured **epidermix® 316**. Always wear gloves when working with the material and avoid excessive inhalation and skin contact. If material in splashed in the eye, wash with copious quantities of clean water and seek medical attention.

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 datasheets.

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