

LOW VISCOSITY SOLUTION SEALER

epigen 2109



TECHNICAL BULLETIN

EPIGEN 2109 has been developed as a penetration sealer for concrete, brick and other porous surfaces. It will adhere to both new and old materials.

A coating for general industry in applications such as concrete, timber, and brick sealing in warehouses, garages, work-shops, for a variety of services.

TYPICAL APPLICATIONS

- # The internal sealing of concrete tanks and troughs to prevent seepage
- # The sealing of concrete floors against penetration of oils, fats, dilute acids, ammonium nitrate and other corrosive materials which can cause damage to concrete
- # The water-proofing of walls and floors against rising damp and outside wall dampness
- # Protection of structural concrete against penetration of salt laden air and moisture as a means of preventing corrosion of reinforcement

FEATURES

- Excellent UV stability and chemical resistance
- Trafficable in 24 hours
- Highly penetrating into concrete



Epigen 2109 is supplied as a two part kit comprising component "A" resin, component "B" curative. The entire kit is supplied in a pre weighed convenient size to make on site activities easier.



PROFILE

Ratio by weight	1 Part Component "A" 1 Part Component "B"
Pot Life minutes @ 24°C	120
Mixed consistency @ 24°C	Thin Liquid
Specific gravity when mixed	0.9

TYPICAL CURED PROPERTIES

Compressive strength ASTM D695, Mpa	n/a
Tensile strength ASTM D638, Mpa	n/a
Flexural strength ASTM D790, Mpa	n/a
Hardness, Shore D	n/a
Thermal conductivity ASTM C177, Kcal/m.hr°C	n/a
Coefficient of thermal expansion ASTM C531 (cm/cm/°C) x 10 ⁻⁵	n/a
Dielectric constant ASTM D150 (150KHz)	n/a
Maximum exposure temperature, °C	110
Heat deflection temperature ASTM D648, °C	75
Cure time to light traffic @ 20° C, Hours	12
Cure time to open traffic @ 20° C, Hours	24
Ultimate cure time @ 20° C, Hours	48

n/a refers to "not applicable" - data is inappropriate to supply in those cases.

This information is supplied as an indicative reference only. Caution should be used where direct comparisons are to be made.

SURFACE PREPARATION

Methods for substrate preparation include using chemical means such as washing & etching, high pressure water blasting, or mechanical techniques such as abrasive blasting, grinding or scarifying. Specialist advice is available from Peerless Industrial Systems to ensure the correct preparation procedure is employed for specific applications.

APPLICATION

Mixing of product should be carried out using slow speed mixers by mixing the component "A" with the component "B". Ensure the mix is homogenous and clear before use.

Allow the mixed 2109 to sit for 10 minutes before use.

Pour the mixed product directly into paint trays and using a medium nap roller, apply the product directly to the substrate ensuring the product is finished off evenly, removing excess puddles or trails.



COVERAGE GUIDE

(a) CONCRETE :

Wood float finish - 1st coat 20-30 sq. metres per 6 Kg pack & 2nd coat 40-50 sq. metres per 6 Kg pack
Steel float finish - 1st coat 40-45 sq. metres per 6 Kg pack & 2nd coat 55-60 sq. metres per 6 Kg pack

(b) BRICK :

1st coat 30-45 sq. metres per 6 Kg pack & 2nd coat 45-55 sq. metres per 6 Kg pack

CHEMICAL RESISTANCE

Tested at 21°C. Samples cured for 10 days at 25°C.

Curing at elevated temperatures will improve chemical resistance.

- 1 = Continuous or long term immersion
- 2 = Short term immersion
- 3 = Splash and spills
- 4 = Avoid contact

Acetic Acid, 10 %	2	Acetone	2
Acetic Acid, Glacial	2	Ammonium Chloride	1
Hydrochloric Acid, 5 %	1	Beer	1
Hydrochloric Acid, 10 %	1	Dichloromethane	4
Hydrochloric Acid, conc	2	Diesel Fuel	1
Nitric Acid, 5 %	2	Isopropyl Alcohol	1
Nitric Acid, 10 %	3	Kerosene	1
Phosphoric Acid, 5 %	1	Petrol	1
Phosphoric Acid, 20 %	2	Salt Water	1
Sulfuric Acid, 5 %	2	Sewage	1
Sulfuric Acid, 20 %	3	Skydrol	1
Ammonium Hydroxide, 5 %	1	Sodium Cyanide	1
Ammonium Hydroxide, 20 %	1	Sodium Hypochlorite	1
Potassium Hydroxide, 5 %	1	Toluene	2
Potassium Hydroxide, 20 %	1	Trichloroethane	2
Sodium Hydroxide, 5 %	1	Wine	1
Sodium Hydroxide, 20 %	1	Xylene	1

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CURE

Variations in cure may arise due to the amount of material being applied, the thickness of material being applied, the surface temperature, and the product temperature. The cure may be increased by heating product or by leaving mixed material stand for 15 minutes before use. The cure may be decreased by cooling the product before mixing.

EPIGEN PRODUCTS

MANUFACTURED BY

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