# MULTIPURPOSE COATING
# epigen 2550

epigen
Performance Resins & Composite Systems

TECHNICAL BULLETIN

A heavy duty solventless epoxy system designed for applicaton to slippery areas to make them safe for pedestrian and rolling equipment or vehicles. Providing a high profile non slip for optimum safety, developed for marine and industrial sites on concrete and decks infactories, warehouses, work-shops, decks and a variety of services.

The surface finish may be laid as a thin film roll down coating controlling the thickness of the coating by trowel and roller, offers exceptional resistance to oil, grease, chemicals, salt water, gasoline, detergents and many other chemicals.

**TYPICAL APPLICATIONS**

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|---|---|
| Vehicle Workshops | Swimming Pools |
| Ship Decks | Aircraft Hangers |
| Pharamaceutical Factories | Amenity Blocks |
| Food Processing Facilities | Dairy Industries |
| Warehouse Flooring | Loading Docks |
| Laundries | Steelwork Coating |

**FEATURES**

- Excellent UV stability
- Application DFT in 1 coat
- Trafficable in less than 12 hours
- Free of all solvents - zero VOC
- Engineered for high mechanical strength
- Versatility in application
- Cures under cold adverse conditions
- Highly non slip finish
- Rapid return to service
- Excellent resistance to a broad range of chemicals

**Epigen 2550** 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.

No additional grits or non slip additives required, mix and apply in one coat. Product can be special tinted in batch lots.

**PROFILE**

| | |
|---|---|
| Ratio by weight | 10 kg Component “A” |
| | 1 kg Component “B” |
| Colour | Grey, Green or Yellow |
| Pot Life minutes @ 24°C | 60 |
| Mixed consistency @ 24°C | Thick Liquid |
| Specific gravity when mixed | 1.9 |
| Kg/m$^2$ for 2.5mm nonslip | 4.75 |

**TYPICAL CURED PROPERTIES**

| | |
|---|---|
| Compressive strength ASTM D695, Mpa | >90 |
| Tensile strength ASTM D638, Mpa | >18 |
| Flexural strength ASTM D790, Mpa | >15 |
| Hardness, Shore D | 90 |
| Thermal conductivity ASTM C177, Kcal/m.hr° C | 0.40 |
| Coefficient of thermal expansion ASTM C531 (cm/cm/° C) x $10^{-5}$ | 3.6 |
| Dielectric constant ASTM D150 (150KHz) | 2.8 |
| Maximum exposure temperature, °C | 150 |
| Heat deflection temperature ASTM D648, °C | 80 |
| Cure time to light traffic @ 20° C, Hours | 6 |
| Cure time to open traffic @ 20° C, Hours | 24 |
| Ultimate cure time @ 20° C, Hours | 72 |

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

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## 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 and completed by adding to the component "A", component "B". Ensure the mix is homogenus and free from lumps.

Pour the mixed product directly onto the floor and spread using a flat trowel, squeegee or roller. Then roll evenly the Epigen 2550 with a long nap roller, exposing as much profile as possible with the maximum amount of non slip aggreagate, removing excess puddles or trails. Short or medium nap rollers may not provide the desired non slip profile.

## 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**
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