



## EPOX-SR80W

### Water-based epoxy coating

#### DESCRIPTION

Fast drying two-component waterborne epoxy coating, high solids content 80%. High performance for industrial floors. Hardwearing gloss finish for indoor application. Water soluble and has the advantage of being non-flammable and odourless.

#### ADVANTAGES

- ✓ Very good adhesion.
- ✓ Solids content 80%.
- ✓ Quick drying.
- ✓ Applicable on substrates with a degree of humidity (up to 6%).
- ✓ Hardwearing.
- ✓ High resistance to solvents and chemicals.
- ✓ Excellent colour and gloss resistance.
- ✓ Odourless (solvent-free).
- ✓ Multi-layer system.
- ✓ Semi-dry mortar.

#### RECOMMENDED USES

Topcoat in epoxy systems. EPOX-SR80W MULTI-LAYER SYSTEM

SEMI DRY MORTAR (consult technical department).

High-performance finish for garage floors, car parks and floors in general.

Ideal for concrete, cementitious surfaces and floors exposed to high traffic and mechanical stress. Its high hardness and absence of odour make it suitable for painting floors such as Car parks, industrial flooring, HA industry, pharmaceuticals, laboratories, automotive, warehouses, etc.

Anti-slip mode incorporates silica, corundum or bauxite aggregates of a selected grain size that give the finish a rough, non-slip feel, but is visibly smooth.

#### PRESENTATION

Colours RAL 7040, 3011, 6011, white, other colours on request. Formats of 3+1 Kg and 9+3 Kg.

## RECOMMENDED USES

### EPOX-SR80W MULTI-LAYER SYSTEM

Roller application with approx. 200grs m<sup>2</sup>.

- If the application requires silica saturation, the estimated aggregate consumption is approx. 1 kg.
- Applied base coat 1:1 mix of SR80W 1:1 and 04-09 aggregate applied with a flat trowel leaving a 1.5kg m<sup>2</sup> ratio of 750grs primer 750grs aggregate.  
(for multi-layer systems or as a bonding bridge for mortar systems, terrazzo, etc., fresh saturation of 3/3.5 kg of 04-09 silica.
- Sealing Applied to rubber dreadlock consumption of 500grs m<sup>2</sup>.

### PRECAUTIONS:

- In cases of humidity higher than 6% do not apply the primer (consult the technical department).
- Add maximum of 20% only in case of need such as on degraded substrates or for penetration capacity. DO NOT dilute with other products that may affect the final characteristics of the material.
- In the case of 48 hours after the first application, a sanding (linen grit sandpaper) and vacuuming must be carried out before applying any finish or primer.

## TECHNICAL CHARACTERISTICS

**Composition:** fixed vehicle, water-based epoxy resins.

**Pigments:** mineral, organic and special extenders.

**Solvent:** water.

**Density:** 1.30 ± 0.02 kg/litre.

**V. Solids:** 80 ± 2%

**Coverage:** 7 m<sup>2</sup> per coat and kg of product

**Dilution:** 1st coat (10%) 2nd coat (5%).

|               |              |          |                   |    |
|---------------|--------------|----------|-------------------|----|
| <b>Drying</b> | To the touch | 3 hours  | Maximum<br>hours. | 48 |
|               | Total        | 8 hours  |                   |    |
|               | Repainting   | 12 hours |                   |    |

## APPLICATION

**Coats:** 2 with a consumption of 0.150 kg per coat

**Mixing:** Mix the enamel with its corresponding catalyst in a 3/1 ratio until it is perfectly homogenised.

**Pot life:** Maximum **30-40** minutes. Pot life of the mixture ends when there is a significant increase in viscosity.

**Recommended thickness:** 0.150 kg per coat.

**Dilution:** First coat 10%, second coat 5%, with water.

**Application temperature:** ambient and floor temperature between 10 and 30 °C.

## **Preparation of Surface:**

### **New Surfaces:**

Wait for the cement to cure completely (approximately 1 month). Render must be dry, clean and free of dust, grease, mould, algae and other contaminants.

Mechanical treatment using a diamond disc SAT machine and subsequent vacuuming. Repair cracks, crevices and crazing using thixotropic epoxy resin 100% solids PR EPOX 40 epoxy resin.

Apply a coat of water-based epoxy primer PR EPOX 40 100% solids.

Apply one coat of water-based epoxy primer, PR EPOXW 20 on weak, absorbent or very alkaline surfaces. In case of efflorescence or saltpeter treat with dilute acid solution, rinse with plenty of water and allow to dry.

It is essential to regulate the porosity of the pavement so that it is sufficient to favour the penetration and anchorage of the paint. Best results are obtained through mechanical methods as, in addition to regulating the porosity of the substrate, they eliminate any type of unwanted substance or foreign body.

If a mechanical treatment is not possible, at least a chemical treatment must be carried out: elimination of foreign or unwanted agents by using diluted hydrochloric acid and then removing the remains of the acid with plenty of water; finally allowing the support to dry completely and proceeding with normal painting.

### **Painted Surfaces:**

If the paintwork is well adhered, sand with a rotary sander and then vacuum to remove loose particles, clean and degrease.

On satin-finished superglossy surfaces sand and vacuum.

Apply a coat of water-based epoxy primer, PR EPOXW 20, as a bonding primer beforehand.

### **Surfaces in poor condition:**

If the paintwork is old or badly adhered with defects such as chalking, blistering, chipping, cracking, etc., mechanically remove remains, repair cracks or flaws and apply a coat of water-based epoxy primer, PR EPOXW 20.

**IMPORTANT:** In high humidity conditions or below 10°C, DOES NOT HARDEN. Do not apply the paint on very hot surfaces exposed to direct sunlight.

Surfaces in general should be clean, dry and free of grease, dust and rust. Floors should be clean, dry and well set (28 days) Residual floor moisture less than 6%.

Preferably roughened to improve adhesion.

On unpainted surfaces: Apply 2 or 3 coats as usual (the first coat more diluted (30%)). On surfaces with old paintwork: Remove the paint in poor condition and proceed as for unpainted surfaces.

**COLD MATERIALS:** When dealing with epoxy resins and urethanes, cold material will result in slower than normal cure times and may affect their physical properties once cured. Cold materials are more difficult to mix, unfold and level. Before materials are applied in cold temperatures, they should be stored in a heated environment or in a heated storage container at the ideal temperature indicated on the Product Data Sheet. The longer the materials can be stored in a heated environment, the better they will perform.

• **COLD ENVIRONMENT TEMPERATURES:** This condition will also cause slower than normal cure of epoxy and urethane materials. It will also make them more difficult to roll out and level. It may cause bubbling/blistering problems because the viscosity of the epoxy has increased due to the cooler temperatures, preventing the vapour trapped in the substrate from escaping. Prior to application, the temperature in the application area should be at normal service temperature for a minimum of 48 hours. If necessary, use forced heat by means of portable heaters.

• **COLD SURFACE TEMPERATURES:** Concrete supersurfaces that have a temperature of 10°C or below will dramatically slow down the normal curing of epoxies and urethanes and can reduce cure by up to 6 hours or more. It can also affect the physical properties of cured membranes, making some epoxies flexible. Cool substrate temperatures can prevent epoxies from "wetting" or penetrating the concrete surface, leading to adhesion problems. Prior to application, service temperatures should be at normal operating conditions, a minimum of 15°C, for a minimum of 48 hours. If this cannot be achieved, the use of heat strengthening may be necessary.

• **BASEMENTS, SPACES WITH LITTLE VENTILATION:** In poorly ventilated rooms or basements, the relative humidity due to condensation reaches levels at which the products suffer various consequences on the finishes. This ranges from condensation in the environment to the curing of the product.

• **RECOMMENDATIONS:**

1. Circulate air with ventilation equipment before, during application and in the curing process.
2. Use a space heater covering the whole area. It will help us to eliminate humidity, reaching a temperature both of the support and of the environment suitable for the execution of the products.
3. Do not apply epoxy, polyurethane, acrylic, under any circumstances below 10°C.
4. The substrate and ambient temperature must be at least 3°C above the dew point during application.

**HOT SUBSTRATE / AND / OR MATERIAL:** Substrates exposed to high temperatures exceeding 26°C directly affect the physical and chemical properties of the materials. The direct effects on the application as the materials depending on their nature will have a cause and effect such as cracking, micro cracking, orange peel, accelerated drying with the loss of their properties, colour changes, loss of levelling, etc.

• **RECOMMENDATIONS**

Do not apply in ambient temperatures above 25°C. Do not apply outdoors during the warm hours of the day.

Do not expose the materials to high temperatures and storage in direct sunlight. Do not apply if the substrate temperature exceeds 30°C.

## STORAGE

Easy to mix, by shaking, after storage for 12 months in closed containers. Free of skin, clots and gel. Keep away from temperatures below 0 °C.

## SAFETY

### SAFETY, HEALTH AND ENVIRONMENT

In general avoid contact with eyes and skin, wear protective gloves, goggles and appropriate clothing. Keep out of reach of children. Use only in well-ventilated areas. Do not empty into drains. Keep container tightly closed and in a suitable place. Ensure proper transport of the product; prevent any accidents or incidents that may occur during transport due to breakage or deterioration of the container. Keep the container in a safe place and in the correct position. Do not use or store the product in extreme temperature conditions. You should always take into account the legislation in force concerning the Environment, Hygiene, Health and Safety at Work. For further information, it is essential to read the PRODUCT SAFETY DATA SHEET.

It is advisable to check periodically the update status of this Technical Data Sheet.

Pinturas Pinay assures the conformity of its products with the specifications contained in the technical data sheets. The technical advice given by Pinturas Pinay, before or after delivery of the products, is merely indicative and given in good faith and constitutes its best knowledge, in accordance with the current state of the art, but without guarantee of the final results as these depend on conditions of use beyond our control. All our sales are subject to our general conditions of sale, which we advise you to read.

See labelling and Safety Data Sheet.



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