



PR EPOX 100S Epoxy primer 100%S

DESCRIPCIÓN

100% solid resin high penetration primer, dry mortar, undercoat, filler, half-rounds and bonding coat for use on concrete, mortar, stone, cement plaster, fibre cement.

VENTAJAS

- ✓ Excellent adhesion to concrete
- ✓ High abrasion resistance, hard wearing
- ✓ Resistant to solvents and chemicals
- ✓ Excellent colour and gloss retention
- ✓ High solids content: 100%
- ✓ Excellent resistance to road traffic
- ✓ Excellent coverage
- ✓ Good levelling performance
- ✓ Good chemical resistance
- ✓ Leaves no roller marks or brush strokes
- ✓ Low odour
- ✓ Reusable once the can has been opened (if no catalyst added)
- ✓ Good impact resistance

USOS RECOMENDADOS

- ✓ Roller application, consumption approx. 200grs m²
- ✓ Rubber-bladed paint spreader consumption of 500grs m². If the application requires silica saturation, the estimated consumption of aggregate is approx. 1kg.
- ✓ Applied as a base coat with a mixture of 1 to 1 primer and aggregate 04-09 applied with a flat trowel leaving a 1.5kg m² ratio of 750grs primer 750grs aggregate (for multi-layer systems or as a bonding bridge for mortar systems, terrazzo, etc., fresh saturation of 3/3.5kg of silica 04-09).
- ✓ Used as a filler for crack and crevice repairs with an added G9 thixotropic mix.
- ✓ Resin for forming grooves and gullies
- ✓ Semi-pigmentation in the base coats for quartz-coloured systems with a percentage of 3 to 5 % pigment paste.

PRESENTACIÓN

Gloss finish.

Kit 14kg. Component A 10kg. Component B 4kg.

CARACTERÍSTICAS TÉCNICAS

Composition: Fixed vehicle epoxy resin.

Density: 1.1002 Kg./L.

Solids volume: 100%

Yield: 0.200kg m². per coat

Drying time: dry to the touch 5 hours
Total 8 hours
Subsequent coat: 2 hours, maximum 48 hours.

APLICACIÓN

Coats: 1 coat with 0.200kg m²

Product mixing: Mix component A with component B to achieve a smooth, homogenous mix at a ratio of 2.5 to 1.

Useful life once mixed: Maximum 20 to 30 minutes.

Recommended thickness: 0.400kg applied in two coats for finishing multi-layer and self-levelling system.

Dilution: 3% Epoxy Thinner or Fluidising agent.

Application: ambient temperature and pavement **temperature** between 10 and 25 °C.

TRATAMIENTOS DE SUPERFICIES

New surfaces:

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

Mechanical treatment by SAT diamond disc machine and subsequent vacuuming.

Repair of fissures, cracks and crazing using thixotropic **PR EPOX 100S** epoxy resin.

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

TRATAMIENTOS DE SUPERFICIES

Surface porosity must be sufficient to allow adequate penetration and anchorage of the paint. Best results are obtained using mechanical methods which regulate the porosity of the substrate and eliminate any unwanted substance or foreign body.

If mechanical treatment is not possible, at least one chemical treatment must be carried out to eliminate foreign or undesired agents using dilute hydrochloric acid and then thoroughly washing with water. Allow the substrate to dry completely before proceeding with normal painting.

Painted surfaces:

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

On satin-finished surfaces, sand and vacuum.

Apply a coat of water-based epoxy primer, **PR EPOXW 20**, as a bonding primer on substrates with a relative residual humidity of 3 to 6% to the substrate.

On substrates with a residual moisture content of less than 3%, apply as a primer.
PR EPOX -100S 100% solids colourless primer at 0.200kg per m².

Unstable surfaces:

If the paint is old or badly adhered with defects such as chalking, blistering, chipping, cracking, etc, remove the remains mechanically, repair cracks or flaws and apply a coat of **PR EPOX -100S** 100% solids colourless primer.

IMPORTANT:

In high humidity conditions or below 10°C, THE PRODUCT DOES NOT SET. Do not apply to very hot substrates exposed to direct sunlight.

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

Preferably, the surface should be roughened to improve adhesion.

On unpainted surfaces, apply 2 or 3 coats (the first diluted to 30%) On surfaces with old paint, remove unstable paint and proceed as for unpainted surfaces.

Consumption is approximate and will depend on the condition of the surface being painted. For other application systems, please consult our technical department.

Surface tensile strength should be $> 1.5 \text{ N/mm}^2$ and moisture content $< 4\%$. Concrete must have an open porous structure for good penetration of the primer.

We recommend preparing the substrate by polishing, grinding or shot blasting.

CLEANING TOOLS.

Tools used must be cleaned after applying the product. Never let the product dry on tools. Removal of residues with universal solvent, thinner, xylene.

COLD MATERIALS: When dealing with epoxy resins and urethanes, cold material will result in slower than normal cure times and may affect physical properties once cured. Cold materials are more difficult to mix, apply 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 apply and level. It can cause bubbling/blistering as the viscosity of the epoxy has increased due to the colder 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 portable heaters.

- **COLD SURFACE TEMPERATURES:** Concrete surfaces at 10°C or below will drastically slow 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. Cold 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 necessary, use portable heaters.

- **BASEMENTS, SPACES WITH LITTLE VENTILATION:** in spaces with little ventilation or basements, the relative humidity due to condensation reaches levels which may seriously affect the finish, from condensation in the environment to the curing of the product.

- RECOMMENDATIONS:

1. Use ventilators before and during application and during curing time.
2. Use a heat gun covering the whole area. It will help to eliminate humidity, reaching a temperature of both the support and the environment suitable for curing.
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 dew point during application.

HOT SUBSTRATES OR MATERIALS: Substrates exposed to high temperatures exceeding 26°C directly affect the physical and chemical properties of the materials. The direct effects will depend on the nature of the material and may include cracking, micro cracking, orange peel, accelerated drying with loss of properties, colour changes, loss of levelling, etc.

- RECOMMENDATIONS

Do not apply at ambient temperatures above 25°C.

Do not apply outdoors during the warmest hours.

Do not expose the materials to high temperatures or store in direct sunlight. Do not apply if the substrate temperature is above 30°C.

CONSERVACIÓN

Mixes easily up to 12 months storage in a closed container by vigorous shaking. Does not form skin, clots or gels. Protect from temperatures below 0 °C.

SEGURIDAD

HEALTH, SAFETY AND THE 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 upright in a safe place. Do not use or store the product in extreme temperature conditions. Always take into account the legislation in force concerning the Environment and Health and Safety at Work. For further information, it is essential to read the PRODUCT SAFETY DATA SHEET. It is advisable to periodically check the update status of this Datasheet.

Pinturas Pinay assures the conformity of its products with the specifications given 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 on the final results, which depend on conditions of use that are beyond our control. All 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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