



PUR-B65 POLYURETHANE FLOOR VARNISH

DESCRIPTION

Two-component aliphatic polyurethane varnish with gloss finish. Excellent chemical, mechanical, abrasion and wear resistance. Application on supports prepared with polyurethane or epoxy enamels or directly onto iron and concrete as definition in quartz colour systems, multilayers, self-levelling cementitious and resin systems. Interior and exterior use.

ADVANTAGES

- ✓ Excellent adhesion on all types of substrates.
- ✓ Mechanical resistance to abrasion and impact from traffic.
- ✓ Non-yellowing.
- ✓ Good adhesion on concrete and two-component paints
- ✓ Indoor and outdoor use.
- ✓ High UV resistance.
- ✓ Anti-dust effect.
- ✓ Concrete surface hardener.
- ✓ Excellent gloss resistance.
- ✓ Facilitates the removal of graffiti.
- ✓ Moderate chemical resistance to splashes and cleaning detergents.

RECOMMENDED USES

As a final protective finish coat for a flooring system that has been painted with epoxy or polyurethane and requires increased wear resistance of the flooring, ideal for high traffic in warehouses, workshops, car parks, industrial buildings, etc. It provides a uniform dust-free, roll-resistant floor coating and an elegant finish.

Also as a final coat for iron protection, previously painted with polyurethane metal enamel, or directly onto normal or galvanised iron, concrete, stone, marble and wood.

Always carry out an adhesion test.

PRESENTACIÓN

Colours: Colourless.

Gloss finish.

Formats of 16+4 kg. 4+1 kg.

TECHNICAL CHARACTERISTICS

Composition: fixed vehicle Isocyanate catalysed polyurethane resins
Solvent Hydrocarbon mixture

Density: 1.02 ± 0.02 kg/litre.

V. Solids $40 \pm 2\%$.

Coverage: 8 - 12 m²/kg per coat.

Drying: Touch 3-4 hours

Total hours

Repaint: 12 hours Maximum: 48 hours

Light vehicle transit: 2 days Normal transit: 10 days

APPLICATION

Coats: 1 / 2

Mixing: Mix the enamel with the catalyst in a ratio of 1.5/1 until it is perfectly homogenised.

Pot life of the mixture: Maximum 6 hours.

Recommended thickness: 30-40 dry microns per coat

Thinning: First coat 3/5%, subsequent coats 3/5%, with polyurethane thinner.

Application temperature: Ambient temperature between 10 and 30 °C.

SURFACE PREPARATION

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 by SAT diamond disc machine and subsequent vacuuming.

Repair of fissures, cracks and crazing using thixotropic 100% solids PR EPOX 40 epoxy resin.

Apply a 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 confirm the porosity of the pavement so that it is sufficient to allow 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 mechanical treatment is not possible, at least one chemical treatment must be carried out. Eliminate foreign or undesired agents by using dilute hydrochloric acid and then removing the remains of acid with plenty of water; finally allowing the substrate 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 surfaces sand and vacuum.

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

Surfaces in poor condition:

Old, loose or flakey paint, chalking, blistering, chipping, cracking, etc must be removed mechanically. Repair and apply a coat of water-based epoxy primer, PR EPOXW 20.

Metal surfaces:

Pre-treat with zinc phosphate epoxy primer (PR EPOX 40).

Conditions of application:

Application: Brush, roller or airless.

Mixing: Dilute max. 10 %.

Solvent: Polyurethane solvent.

Cleaning utensils: Solvent.

Working temperature: Minimum: 10°C. Maximum: 60°C.

Substrate temperature: 2 to 3°C above dew point.

Relative humidity: - Less than 80%.

IMPORTANT: In high humidity conditions or below 10°C, DOES NOT HARDEN. - Do not apply the paint on very hot substrates due to sun exposure.

Surfaces in general shall be clean, dry and free of grease, dust and rust. Clean, dry and well-cured floor (28 days).

Residual moisture less than 6%.

Preferably roughened to improve adhesion.

Unpainted surfaces: Apply 2 or 3 coats (the first coat more diluted (30%) diluted) On surfaces with old paint: Remove the paint in bad 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 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 forced heat by means of portable heaters.

- **COLD SURFACE TEMPERATURES:** Concrete surfaces that have a temperature of 10oC 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. 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 this cannot be achieved, the use of heat forcing may be necessary.

- **BASEMENTS, SPACES WITH LITTLE VENTILATION:** in spaces with little ventilation or basements, the relative humidity due to condensation reaches levels at which the products suffer various consequences on the finishes from condensation in the environment to the curing of the product.

- RECOMMENDATIONS:

1. Air renewal with ventilation equipment before, during application and in the curing process.
2. Use a heat gun covering the whole area. It will help eliminate humidity, reaching a temperature of both the support and 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, cracking, accelerated drying with the loss of their properties, colour changes, loss of levelling, etc.

- RECOMMENDATIONS

Do not apply at ambient temperatures above 25°C.

Do not apply outdoors in 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

Mixes easily by shaking, after storage for 12 months in closed containers. No skin, clots or gels. 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 periodically check the update status of this Datasheet.

Pinturas Pinay guarantees 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 as these depend on conditions of use that are beyond our control. All our sales are subject to our general conditions of sale, which you are advised to read thoroughly.

See labelling and Safety Data Sheet.