

Pinay

TECHNICAL DATA

PUR M50
80% solids



DESCRIPTION

PUR M50 - Mono-component aliphatic polyurethane with a satin lacquer effect finish, suitable for the protection of polymeric flooring, concrete, cementitious self-levelling, increasing its resistance to abrasion and wear. To decorate and protect all types of surfaces. Coating formulated from pigmented, aliphatic polyurethane resins. Mono-component, fast drying coating.
High chemical/mechanical resistance.

ADVANTAGES

- ✓ High solids content.
- ✓ Good colour and gloss retention.
- ✓ Fast drying. Allowing traffic use in a short period of time.
- ✓ Very good resistance to road traffic.
- ✓ Excellent coverage
- ✓ Very good levelling power.
- ✓ Good chemical resistance.
- ✓ Suitable for outdoor use.
- ✓ Does not form overlaps or roller marks
- ✓ Low odour.
- ✓ Reusable after opening.
- ✓ Good impact resistance.
- ✓ Semi flexible.

RECOMMENDED USES

Typical uses:

For concrete and cementitious surfaces, metallic supports (footbridges etc), and false floors exposed to high traffic and mechanical stresses. Its high hardness and low odour make it suitable for painting floors such as parking, industrial flooring, automotive, toilets, corridors, warehouses, etc.

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

A versatile floor coating due to its monocomponent character, works easily and does not have pot-life.

PRESENTATION

Colours: white, grey, red, and any colour from the Ral chart.
Satin and matt finish.
20 kg formats

TECHNICAL CHARACTERISTICS

Appearance: Satin. Other finishes on request.
Colour: According to RAL chart.
Substrate: Concrete, cement, plaster, brick, stone, fibrocement and previously prepared surfaces.
Practical coverage: 6 to 8 m²/Kg per coat (depending on the type of substrate and application conditions).

Drying time:
To touch: 30 min to 1 hour (at 20 °C and 60% relative humidity):
Pedestrian traffic: 6 hours.
Road traffic: 8 hours.
Total strength: 5 days
Recoating: - 4 h approx.
Number of coats: 2. Application rate: 0.150 kg per m² per coat.

Composition: fixed vehicle: Aliphatic polyurethane resins.
Pigments: Titanium bioxide.
Solvent: Hydrocarbon mixture.

Density: 1.30 ± 0.02 kg/litre.

Solids: 80 - 85 % depending on colour.

Coverage: 7 m²/ per kg, one coat.

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|---------------|--------------|-------------------|
| Drying | To the touch | 30 min. |
| | Total | 6 hours |
| | Repainting | Minimum 12 hours. |

APPLICATION

Coats: Apply 2 coats. 3 coats recommended.
Recommended thickness: 150 grs per m² per coat.

Dilution: 5 % maximum, with polyurethane thinner.

Application temperature: Ambient temperature from 5 to 30 °C.

Application tools: Short nap roller, good quality enamel roller 1 pore polyurethane foam and airless equipment.

Mix thoroughly before application with a mixer at low speed.

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 means of SAT diamond disc machine and subsequent vacuuming. Repair of cracks and crazing using epoxy resin (_____) 100% solids thixopropyl epoxy resin.

Apply a coat of EPOXI WATER-BASED primer on surfaces that are not very consistent and absorbent or very alkaline. 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 surfaces sand and vacuum.

Apply a prior coat of EPOXI WATER-BASED PRIMER, as a bonding coat on poorly maintained substrates.

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.

Metal furniture:

Pre-treat with suitable primer (zinc phosphate epoxy primer). Application conditions:

Application: Brush, roller or airless.

Mixing: Dilute max. 5%. Thinner:

Polyurethane thinner. Clean tools:

Thinner.

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 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 (the first coat slightly thinned) 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 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 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. 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 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. Ensure adequate ventilation with equipment before and during application and in the curing process of materials.
2. Use a heat gun covering the whole area to 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 since, depending on their nature, the materials will have a cause and effect such as: cracking, micro cracks, 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. Does not form skins, 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 check periodically the update status of this 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 for 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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