



PUR-UREA FLEX

Aliphatic 100% solids

DESCRIPTION

PUR UREA aliphatic flexible two-component thin film high gloss finish. To protect polyurethane membranes, aromatic polyureas and surfaces exposed to sunlight that may have some movement. Finishing coat for thin film, self-levelling or multi-layer systems. Hardwearing, for outdoor use. High performance finish for concrete floors in industrial buildings, workshops, car parks and swimming pools.

ADVANTAGES

- ✓ Hardwearing and resistant to road traffic and light pedestrian passage.
- ✓ Special finishes for waterproofing systems.
- ✓ Great flexibility.
- ✓ High abrasion resistance.
- ✓ Does not crack on impact or compression.
- ✓ Resistant to solvents and chemicals such as petrol, diesel, lubricating oils, detergents.
- ✓ Excellent colour and gloss resistance.
- ✓ Indoor and outdoor use.
- ✓ Anti-dust effect.

RECOMMENDED USES

For the painting of concrete floors in garages, warehouses, workshops, car parks, industrial buildings, etc., the result is a dust-free, scuff-resistant floor with a uniform appearance and elegant finish.

UV protection on polyurethane membranes, aromatic polyureas and surfaces exposed to sunlight that may have some movement.

Painting of swimming pools, aquariums, fish farms, etc.

PRESENTATION

Colours in grey, red, green, white, TR base and according to RAL chart.

Gloss finish.

Format KIT OF 11.2kg . Comp A 7.2Kg. Comp B 4kg in RAL colours.
TR base format. Kit 10kg. Comp A 6kg. Comp B 4kg.

TECHNICAL CHARACTERISTICS

Composition: **fixed vehicle** 100% aliphatic resins catalysed with isocyanates.
Pigments and organic pigments.

Solvent Hydrocarbon mixture.

Density: 1.15 ± 0.02 kg/litre.

V. Solids: 91 ± 2%

Coverage: 4 - 5 m²/ kg depending on substrate.

Drying:	Touch dry	45 minutes		
	Total	6 hours		
	Repainting	12 hours	Maximum 48 hours	
	Light vehicle transit:	2 days	Normal traffic:	15 days

APPLICATION

Coats 2 coats of 0.200kg m²

Mixing: Mix the enamel with its corresponding catalyst in a 4/1 ratio until it is perfectly homogenised.

Use an electric stirrer at low speed for two or three minutes, avoiding the introduction of air as much as possible. Then add polyurethane thinner to the mixture and mix thoroughly.

Pot life: Maximum 6 hours.

Recommended thickness: 0.200 kg per coat

Dilution: Undiluted. If necessary, add 3% to 5% of solvent.

Application temperature: Ambient temperature between 5 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 cracks, crevices and crazing using thixotropic epoxy resin PR EPOX 100S solids.

Apply a coat of water-based epoxy primer, PR EPOXW 20 on weak, absorbent or very alkaline surfaces. In case of efflorescence or saltpetre 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 should be carried out: removal of foreign or unwanted agents using diluted hydrochloric acid and then removing the acid residue with plenty of water; finally, allow the substrate to dry completely and proceed 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:

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

Metal surfaces:

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

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 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.

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 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. 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 poorly ventilated rooms or basements, the relative humidity due to condensation reaches levels at which the products suffer various consequences to the finish. This ranges from condensation in the environment to the curing of the product.

- **RECOMMENDATIONS:**

1. Ensure ventilation with equipment before and during application and in the curing processes of the materials.
2. Use a heat cannon covering the whole area 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 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

Easy to homogenise, 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 periodically check the update status of this sheet.
technique.

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 we advise you to read.

See labelling and Safety Data Sheet.



Pinturas Ayelenses s.l.
P.I. San José, s/n / 46812
Ayelo de Malferit / Valencia / Spain
t. 96 236 02 92 / f. 96 236 06 01
pinturaspiny.com
info@pinturaspiny.com