TECHNICAL DATA

PR UREA-BT

100% solids primer

DESCRIPTION

PR UREA-BT is a two-component, low-viscosity, 100% solids resin. It is specially designed to increase the adhesion of waterproofing and paving systems. It improves the flatness of rough substrates such as structural concrete or mortars in waterproofing and coating system applications in low ambient temperature situations. Zero VOC (volatile organic compounds)

ADVANTAGES

Structural concrete slabs and floors as well as foundations and walls, flat walkable roofs, terraces, balconies and pitched roofs, inverted roofs (insulation of the lower part)
Swimming pools, ponds, aquariums, including marine environments
Landscaping (ETE 10/0121 and BBA 16/5340)
Pitched or flat roofs of corrugated metal sheets, fibre cement, protection of polyurethane foam thermal insulation systems.

NOTE: consult our technical department for application on other types of substrates or situations.

TECHNICAL CHARACTERISTICS

100% solids primer (zero VOC). Requires a smooth, clean, dry substrate which is as hard as possible.
Applicable on porous substrates: concrete, mortars, excellent adhesion on porous substrates. Does not require dilution.
Consumption depends on the situation of the substrate, the absorption coefficient of the substrate, its irregularities or degree of flatness; it can vary between 150-300 g/m2 in several layers.

Application is recommended using roller or brush. If applied by electric equipment, take into account its initial use time.
Do not apply on substrates with existing humidity or water coming from the inside of the substrate (water pressure due to water table, condensation, infiltrations, etc.).
Can be used in combination with mineral fillers (silica aggregate) on very uneven substrates.

RECOMMENDED USES

- Fast drying at temperatures from 5°C to 25°C.
- Easy application (notched trowel, rubber squeegee, roller or airless spray gun).
- Once applied it creates a continuous membrane without filtration.
- Waterproof.
- Maintains its mechanical properties between -40ºC and +90ºC.
- Fully adhesive.

PRESENTATION

PR UREA BT is available in two formats: Comp A. 5kg. Comp B 5kg.

STORAGE

12 months from the date of manufacture, in original packaging, well closed and undamaged. Keep in a dry place at temperatures between +5ºC and +30ºC.

CONSUMPTION

A minimum total applied thickness of 1.5 mm is recommended, with a total consumption of approximately 2 kg/m2 (dry film thickness); applied in one or several coats according to method. These data may vary according to substrate or climatic conditions.	
Multilayer	0.300 kg/m2 quartz saturation.
Self-levelling	0.250 to 0.300kg/2
Painted	0.150 kg per m2 per coat.

DATOS TÉCNICOS DE LOS COMPONENTES

		COMPONENT A	COMPONENT B
APPEARANCE		Colourless	Colourless
DENSITY (20ºC)		1.1 kg/l	1.1 kg/l
RELATIONSHIP Com p A canister	5kg		
		1 kg	
RELATIONSHIP Com p B canister	5kg	A	
		1 kg	

VOCs (volatile organic compounds)	0
Curing time 10°C	Approx. 3/4 hours
Curing time 20°C	1/2 hours
Density	1.11 ± 0.05 g/cm3
Solids content	100%

CONDICIONES DE APLICACIÓN

Media temperature	From 5ºC to +30ºC
Ambient temperature	From 5ºC to +25ºC
Moisture Content of the Support	≤ 6% parts by weight in moisture content. Shall be free of moisture by capillary rise according to ASTM standard (polyethylene film).
Dew point	Watch out for condensation! The substrate and uncured membrane must be at least 3°C above the dew point to reduce the risk of condensation and to avoid deterioration of the membrane termination.

These values may vary depending on the application, climatic and substrate conditions.
The primers to be used will depend on the type and condition of the substrate, the temperature of the substrate and the ambient temperature. Please consult our technical department.

SURFACE PREPARATION

Cementitious substrates

New concrete must be cured for at least 28 days and must have a tensile strength ≥ 1.5 N/mm2. Cementitious or mineral substrates should be prepared mechanically using abrasive cleaning or scarifying equipment to remove the surface slurry layer and to achieve an open textured surface. Any loose particles and weak concrete should be removed and defects such as coking and gravel nests should be left fully visible. Repairs to the substrate, joint filling, coking, gravel nests and surface levelling should be carried out with appropriate products.

Any sharp elements must be removed, e.g. by sanding. Outgassing is a natural phenomenon in concrete and can cause bubbles in subsequent coats to be applied.

Moisture content, air entrapment in the concrete and surface finish should be carefully checked before beginning any application work. Installation of the membrane when the temperature is falling or stable can reduce outgassing. Therefore, it is generally beneficial to apply the embedded layer in the afternoon or evening.
Prime the backing and always use a reinforced system.

New surfaces

Wait for the cement to cure completely (approximately 1 month). The plaster 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. On surfaces that are not very consistent and absorbent or very alkaline, apply 2 to 3 coats. In case of efflorescence or saltpetre treat with diluted 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.

APPLICATION

Waiting times	Wait before applying PUR UREA BT primer:
	Before applying the finish, wait until the primer has a tacky feel. Make sure that any dust and other contaminants have been removed. Times are approximate and may be affected by changes in environmental conditions, in particular temperature and humidity.
Professional application	This product should only be applied by experienced professionals. The technical properties and performance of PUR UREA BT are affected by exposure to UV radiation. Note: always carry out a test beforehand.

CURING CONDITIONS

Applied Ready-to-Use Product	Times are approximate and may be affected by environmental conditions, especially temperature and relative humidity.
Note	All technical data given in this Product Data Sheet are based on laboratory tests. Actual measurements of this data may vary due to circumstances beyond our control.
Local restrictions	The operation of this product may vary from country to country. Please refer to the local Data Sheet for the exact description of the fields of application.
Health and Safety Instructions	For any information concerning safety issues in the use, handling, storage and disposal of chemical residues, users should consult the most recent version of the product's MSDS, which contains physical, ecological, toxicological and other safety-related data.

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 AMBIENT TEMPERATURES

This condition will also cause slower than normal cure of epoxy and urethane materials. It will also make them more difficult to unfold 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 10°C. Lower temperatures will drastically slow down the normal curing of epoxies and urethanes and can reduce curing 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, causing 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 forced heat may be necessary.

BASEMENTS, POORLY VENTILATED SPACES

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 10ºC.
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. Direct effects on the application, as the materials, depending on their nature, may cause cracking, micro-cracking, orange peel, accelerated drying with the loss of properties, colour changes, loss of levelling, etc.

RECOMMENDATIONS

- Do not apply in ambient temperatures above 25ºC.
- Do not apply outdoors in the warm hours of the day.
- Do not expose materials to high temperatures and/or storage in direct sunlight. Do not apply if the substrate temperature exceeds 30ºC.

SAFETY

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 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 with no guarantee of 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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