

IMPERTRANS

SINGLE COMPONENT LIQUID AND TRANSPARENT POLYURETHANE MEMBRANE FOR WATERPROOFING

PRODUCT OVERVIEW:

Impertrans is a liquid **single component Polyurethane**, resin, which after polymerisation forms a transparent and continuous membrane with important mechanical properties.

It may be easily applied on different kinds of surface, providing a continuous elastic membrane resistant to outdoors and with great adhesion to most substrates.



It is also a convenient product to protect and finish membranes based on other materials such as acrylics, etc.

Compared to conventional liquid waterproofing materials it offers the following advantages:

- Resistant to water (even in contact with it permanently).
- Fast curing.
- Allows pedestrian traffic without any special protection.
- Impertrans does not require any reinforcement base don nets, fibres, etc
- Its shiny – non-thermoplastic finish avoids dust adherence on the membrane.

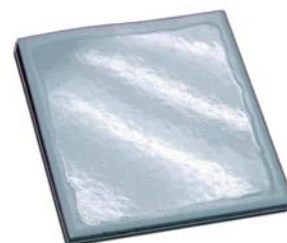
It may be applied using rolls, brush or airless systems. Does not require any special blends (it is a single component product). In special non porous substrates it is convenient to use Rayston's SPECIAL PRIMER, for best adhesion and results.

ADVANTAGES:

- Transparent / shiny finish (matt finish is also possible, using RAYSTON's Matting Agent).
- Resistant to UV rays.
- Excellent adhesion on most surfaces.
- Resistant to movements in the substrate (it "bridges" fissures).
- Resistant to impact and to abrasion.
- Excellent resistance to water and to micro-organisms.
- Wide range of temperatures. This membrane keeps its properties in temperatures between – 50 °C and + 100 °C.
- Waterproofing. Impertrans membrane it totally waterproof and can remain in permanent contact with water.
- Good chemical resistance (cleaning products, etc.).

APLICACION:

Para una buena adhesión del producto sobre substratos tipo hormigón, azulejo, etc, es recomendable abrir el poro para poder permitir una buena penetración. No se recomienda aplicar el producto sobre substratos excesivamente cargados con humedad ya que esto evita una buena penetración y adherencia.



In order to have the best possible results, it is best to use Krypton's PU Primer (see data sheet), before applying Impertrans. This is even more important on non-porous substrates like tiles, ceramics, etc.

It is not recommended to apply Impertrans on substrates which may have humidity, since this is avoids achieving a good penetration and adherence.



It is important to ensure that the surface to treat is properly clean and dry, without dust, and particles which could affect the final quality of this treatment.

The product may be applied either with brush, roll or airless system. Depending on the application, there are 2 different versions available:

IMPERTRANS 40%: Ideal as a final or maintenance coat on other waterproofing membranes (i.e. water based acrylics), in order to improve their overall properties.

IMPERTRANS 60%. This is the proper Transparent PU membrane, and best in situations where the product needs to be applied on tile, ceramics or other supports, and achieve enough thickness (ideally 0,5 – 1 mm thick).

Depending on the grade and the final purpose and desires result, it is possible to apply the product in 2 or more coats. It is also important to note that **IMPERTRANS** will not bubble I case of thick coats, even though it is important not to abuse, since product is self levelling, and it will be difficult to maintain product flat in steep areas.

It is recommended to leave 24 hours between coats and not to walk on the membrane for the same amount of time.

It is also important not to apply the product on windy days, since dust in the air could interfere with the final quality of the treatment.

Product dilution and tools cleansing should be done with solvents. It is recommended to use Rayston's **PU Solvent**.

IMPERTRANS

CONDITIONING:



IMPERTRANS 40%
Metal drums with 4, 9 and 20 Kg
IMPERTRANS 60%
Metal drums with 5, 10 and 25 Kg

Product shelf life: 12 months.

SUMMARY OF CHARACTERISTICS:

Solid content	40 - 60 %
Dry time (Tack-free, exterior, 150 microns, 25°C)	6 to 12 hours, depending on relative humidity
Film Tensile strength Kp/cm ²	87
Elongation at break %	222

CHEMICAL RESISTANCE:

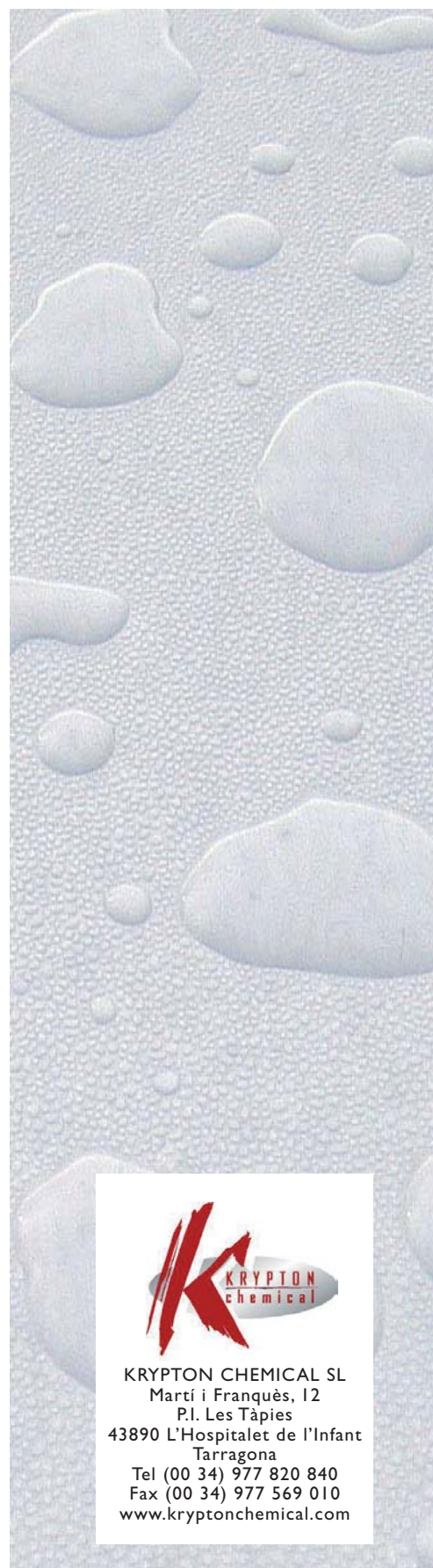
Agent	Conditions	i3000
Distilled water	24 h, 25°C	ok
	24 h, 90°C	a
Sea water	24 h, 25°C	ok
	24 h, 90°C	ok
HCl	6 M, 24 h, 25°C	c
	6 M, 2 h, 80°C	-
	0,1 M, 24 h, 25°C	ok
	0,1 M, 24 h, 80°C	b
NaOH	1 M, 24 h, 25°C	ok
Acetone	24 h, 25°C	c
Ethil Acetate	24 h, 25°C	b
Xylene	25 h, 25°C	ok
Engine oil	24 h, 25°C	ok
Brake fluid	25 h, 25°C	c

ok = No changes
a = Small damage. Some bubbles in surface or easy to peel.
b = Moderate damage. Easy to peel. Bubbles and / or softening.
c = Severe damage. Very easy peeling of the resin from substrate. Important softening.

IMPERTRANS has been developed in cooperation with the leading World Wide producers of UV aditives and inhibitors for plastics.

HEALTH AND SAFETY:

It is important to observe usual precautions with flammable products. Please refer to the material safety data sheet for more information.



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