



Aliphatic one-component polyurethane resin for swimming-pool protection

DESCRIPTION

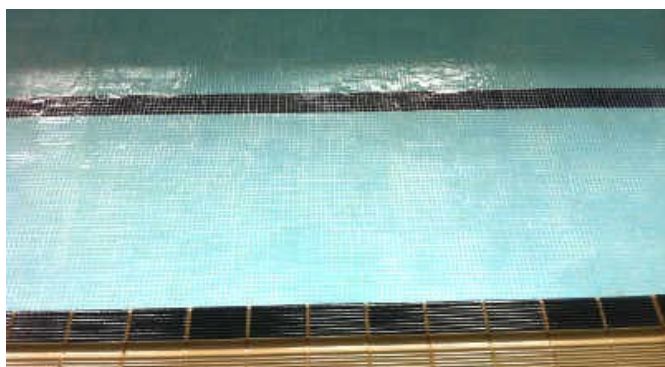
Paintchlore is a performance polyurethane resin, aliphatic isocyanate-based, that cures upon reaction with atmospheric moisture, giving hard and flexible coatings. Paintchlore is an excellent surface protection water exposed structures, such as swimming pools, ponds, and waterpark slides and pools. This product does not yellow on exposure to sunlight.

APPLICATIONS

- Swimming pools
- Ponds
- Water reservoirs
- Water ducts and tanks
- Slides and other water park structures.

PROPERTIES

- Clear, glossy, topcoat.
- One-component product. Easy to apply.
- Colour and UV stability.
- Resistant to chlorinated water.
- It can be pigmented



CERTIFICATES



- **Applus independent laboratory:** Mechanical properties, artificial weathering, watertightness and water permeability. Certificate. N° 08/32307407, Abrasion: 08/32309984, 10/101.589-1432, Slip: 10/1709-1862
- **Rescoll Laboratory.** Salt and chlorinated water immersion test. Exp. 218.

CE	
KRYPTON CHEMICAL SL Martí i Franquès, Pol. Ind. Les Tàpies E-43890 l'Hospitalet de l'Infant (Tarragona) Spain	
14	
EN 13813 SR-B4,0-AR0,5-IR14,7	
Synthetic resin coating. Use according to the relevant Data Sheet.	
Fire resistance	B ₂
Emission of corrosive substances	SR
Water permeability	NPD
Wear resistance (BCA)	AR 0,5
Tensile strength	B 4,0
Impact resistance	IR 14,7
Acoustic insulation	NPD
Acoustic absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

Chemical description Solvent borne single-component aliphatic polyurethane

Physical state Metal container: 4 kg / 20 kg

Packaging Liquid

Non-volatile content (%) >50%

Flash point 36° C (ASTM D 93)

Available colours Colourless or according to the specific pigmentation. For available colours and use details, see Technical Data sheets of Pigment PU

Density 0.95 g/cm³ (20°C)

Viscosity	Temperature (°C)	Viscosity ()
Approximate values Brookfield	5	890
	10	600
	20	400
	30	250

VOC (g/L i %) VOC content: 468 g/l
VOC class

Product subclass: i II Solvent based single-component performance products

Limit from 01/01/2010: 500 g/l

Potlife 6 hours (1 kg, 20°C, 50% hr)

Storage Keep at a temperature below 30°C, away from ignition sources and moisture.

Expiration Product may be used up to 6 months after manufacture in its sealed original container.

INFORMATION ON THE FINAL PRODUCT



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Latest update: 08/05/2020

Page: 1/3



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Final state	Solid elastomeric membrane																																													
Colour	According to the specific pigmentation																																													
Hardness (Shore)	53D																																													
Density of film	1,35 g/cm ³																																													
Mechanical properties	Maximum elongation: 170% Tensile strength: 27																																													
Water vapour permeability	2,7 g/m ² day, (UNE EN ISO 7783)																																													
Abrasion	11 mg (Taber, CS-10, 1 kg)																																													
Chemical Resistance	Permanent contact (0=worst, 5=best)																																													
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UV resistance	UV resistant. Aliphatic polyurethanes are colour-stable, non yellowing.																																													
Thermal resistance	Stable up to 80°C																																													

Support temperature should be between 10°C and 30°C. At higher temperatures, specific precautionary measures must be taken. Please follow manufacturer advice. Relative humidity of air should be less than 80%

High moisture conditions can lead to bubble formation under the membrane surface.

Do not apply this product under intense sunlight/high temperatures. This rises an internal moisture pressure and makes application difficult.

SUPPORT PREPARATION

It is necessary to prepare all critical spots. Consult application documents provided by Krypton Chemical.

Paintchlore is not effective where a negative water pressure (from within) can develop on the membrane. This is the case of water retained inside walls, or under the tiles. In this case, use of Primer H (epoxy) can be useful as a sealing coat (bear in mind some yellowing of the inner epoxy layer is possible).

For all applications on waterproofing membranes (Impermax, Impermax 2k, Impermax Polyurea H, Polyurea) re-apply Paintchlore following the relevant reapplication guidelines.

MIXING OR HOMOGENIZATION

If necessary, dilute with up to 10% Solvent Rayston for viscosity adjustment. Note: on non-porous substrates, do not dilute the first coat. Use low-speed stirring equipment to minimize air bubbles.

APPLICATION GUIDELINES

Apply by roller, brush or airless spraying equipment. Application of clear product by spraying is not recommended due to the risk of microbubbling. Although not strictly necessary, it is highly recommended use all the contents. If not, ensure total sealing of the remainder.

For airless spraying equipment, viscosity is likely to need adjustment. Excess pressure, along with high temperature and humidity, may give rise to microbubbles that makes the surface to look hazy.

On walls, since it is a self-leveling product, several thin coats must be applied. Estimate up to 7 coats on the pool walls to achieve a 1-mm thickness. 2 to 3 coats are necessary to cover the pool floor.

For pigmented applications, mix the pigment paste with Paintchlore by means of a low speed stirrer and wait some minutes to allow bubbles to disappear. Apply the pigmented colour normally. It is recommended to use all the pigmented mixture.

Apply, as a general rule, to 300-500 g/m² for each coat.

CURING TIME

Curing time is dependent on the environmental conditions. Curing rate increases with temperature and humidity rises. The following table gives a rough estimation of the curing time under diverse conditions for a 500 microns coat.

Conditions	Drytouch (h)
43°C, 50% hr	2
25°C, 50% hr	14

REAPPLICATION

A second coat of Paintchlore can be applied when the first one is no longer sticky. Do not wait more than 24 hours for the next coat application to ensure good intercoat adhesion.

SUPPORT REQUIREMENTS

In order to achieve a good penetration and bonding, support must be:

1. Flat and leveled (Impermax is self-leveling)
2. Coct and cohesive (pull off test must show a minimum resistance of 1,4 N/mm²).
3. Even and regular surface
4. Free from cracks and fissures. If any, they must be previously repaired.
5. Clean and dry, free of dust, loose particles, oils, organic residues or laitance.
6. Correctly primed

RECOMMENDED ENVIRONMENTAL CONDITIONS



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RETURN TO SERVICE

At usual conditions (25°C, 50% rh) the membrane can be walked on (light traffic) in 24-48 hours. Depending on final use, it is recommended to wait 7-10 days for usual traffic. Final hardness development may take up to 15 days.

TOOL CLEANING

Liquid Paintchlore can be cleaned with Rayston Solvent, acetone and alcohols. Once hardened, it cannot be dissolved.

FAQ

Problem	Question	Cause	Solution
Does not cure	Suitable solvent?	Some thinning solvents are not suitable	Apply a second coat using only Rayston Solvent as a diluant
	Porous support?	No primer?	Seal with an epoxy-typ primer before Paintchlore
Bubbles	Airless	High pressure	Lower pressure or apply thinner coats. Ambiental conditions may be adverse for this application method.
	Horizontal?	Not enough pigment	Mix well

Curing rate can be slower?

Use of slow solvent Rayston can be useful

CLEANING AND MAINTENANCE

It may be necessary to reapply Impertrans layers if they are worn out due to traffic, weather, corrosion, etc.

For stain removal, a surface treatment with Rayston solvent or isopropyl alcohol may be attempted. Strong acids are totally inadequate. Some solvents may damage the membrane. If this happens, the affected area has to be cut and repaired with a new Impermax application.

In case of blistering due to negative water pressure (from within), cut and remove the affected area. Allow the spot to dry and treat the area again.

SECURITY

Paintchlore contains isocyanates and flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precaution described there. As a general rule, a suitable ventilation must be ensured and all ignition sources must be avoided. This product is intended to be used only for the uses and in the way here described. This product is to be used only by industrial or professional users. It is not suitable for DIY-type uses.

ENVIRONMENT

Empty containers must be handled taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorized waste manager. If there is some residual product in the containers, do not mix it with other substances without checking for possible dangerous reactions.

OTHER INFORMATION

The information contained in this DATA SHEET, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.

We recommend studying deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" in order to determine their convenience for a specific project.

Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise. The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.

This Data Sheet supersedes previous versions.