PAINTCHLORE





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. No 08/32307407, Abrasion: 08/32309984, 10/101.589-1432,Slip: 10/1709-1862
- Rescoll Laboratory. Salt and chlorinated water immersion test. Exp. 218.





TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION			
Chemical description	Solvent borne single-component aliphatic polyurethane		
Physical state	Metal contain	er: 4 kg / 20 kg	
Packaging	Lic	quid	
Non-volatile	\5	0%	
content	25	10 70	
Flash point	36º C (AS	STM D 93)	
Available	Colourless or according to the specific pigmentation. For		
colours	available colours and use details, see Technical Data		
	Sheets of Pigment PU		
Density	0.95 g/cm ³ (20°C)		
Viscosity	Temperature (°C)	Viscosity (mPa.s)	
	5	890	
	10 600		
	20 400		
	30 250		
VOC (g/L and	VOC content: 468 g/l		
%)	Product subclass: i II Solvent based single-component		
VOC class	performance products		
	Limit from 01/01/2010: 500 g/l		
Pot life	6 hours (1 kg, 20°C, 50% hr)		
Storage	Keep at a 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	
Final state	Solid elastomeric membrane	
Colour	According to the specific pigmentation	
Hardness	53D	
(Shore)		
Density of	1,35 g/cm ³	
film	1,35 g/cm²	
Mechanical	Maximum elongation: 170%	
properties	Tensile strength: 27 MPa	
	(EN ISO 327-1)	
Water	2,7 g/m2 day, (UNE EN ISO 7783)	
vapour		
permeability		
Abrasion	11 mg (Taber, CS-10, 1 kg)	
Chemical		
resistance	Permanent contact (0=worst, 5=best)	

Agent	Conditions	Result
Water	15d, 80°C	5
Salt water (saturated)	5d, 80°C	5
Chlorinated water (15	5d, 80°C	5
mg/l)		
Hydrochloric acid (200	7d, 80°C	0
g/l)		
Hydrochloric acid (20 g/l)	7d, 80°C	3
		(discolouration)
Sodium hydroxide (40 g/l)	28d, 80°C	4
Sodium hydroxide (4 g/l)	28 d, 80°C	5
Ammonia	28 d, 80°C	5
Bleach, pure	28 d, 80°C	3
Bleach (10% solution)	28 d, 80°C	4
Xylene	7 d, 80°C	0
Isopropyl alcohol	7d, 80°C	0
Engine oil	28 d, 80°C	5
Diesel	16d, 80°C	3 (discoluration)

Surface contact (0=worst, 5=best)

Chemical	Conditions	Result
Hydrochloric acid (20%)	1h	4
	7 days	2
Skydrol	7 days	4

UV	UV resistant. Alphatic polyurethanes are colour-stable, non-	
resistance	yellowing.	
Thermal	Stable up to 80°C	
resistance		

SUPPORT REQUIREMENTS

To achieve a good penetration and bonding, support must be:

- Flat and levelled (Impermax is self-levelling).
- Compact 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.
- Clean and dry, free of dust, loose particles, oils, organic residues or laitance.
- Correctly primed.



KRYPTON CHEMICAL SL

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Aliphatic one-component polyurethane resin for swimming-pool protection



RECOMMENDED ENVIRONMENTAL CONDITIONS

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 any 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 micro bubbling. 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 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	Dry to touch (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.

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 diluent
	Porous support?	No primer?	Seal with an epoxy primer before Paintchlore
Bubbles	Airless	High pressure	Lower pressure or apply thinner coats. Ambiental conditions may be adverse for this application method.
Not enough opacity	Horizontal? Not enough Mix well pigment		
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 must 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 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 transerred 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.



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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.



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