

PARATHANE 2C TWP

PRODUCT DESCRIPTION AND USES

Parathane 2C TWP is a two-component, solvent-free, thixotropic coating, based on high quality elastomeric polyurethane resins:

- Component A: hardener
- Component B: resin

After polymerization it produces a strong, elastic, hydrophobic membrane suitable for waterproofing and protection. It is recommended for waterproofing of water tanks and drinking water tanks. On tank surfaces with direct exposure to sunlight, Parathane 2C TWP will discolour.

This is purely visual, it does not affect the performance of the product.

This product is used for the waterproofing and the protection of:

- water tanks made of concrete, steel or other material,
- prefabricated concrete tanks,
- drinking water tanks,
- tanks with wall movement due to expansion and contraction

Parathane 2C TWP has the following features:

- Excellent adhesion on almost any type of surface.
- Solvent-less: it can be applied in closed spaces.
- Extremely hydrophobic and hydrolysis resistant.
- Wide working temperature range: -40°C to 90°C.
- Good chemical resistance.

It has been certified for waterproofing of drinking water tanks, in accordance to the EU guideline 98/83/EC.

COMPOSITION

Component A	Liquid
Component B	Thixotropic paste

PERFORMANCES

Component A			
Test	Standard	Unit	Average value
Density at 20°C	ASTM D 1475		1.22
	ISO 2811		1.22
Viscosity at 25°C	ASTM D 2196-86	cP	10,000
Dry residue		%	100
Component B			
Test	Standard	Unit	Average value
Density at 20°C	ASTM D 1475		1.37
	ISO 2811		1.37
Viscosity at 25°C	ASTM D 2196-86	cP	10,000
Dry residue		%	100
Mixing A+B			
Test	Standard	Unit	Average value
Hardness	ASTM D 2240	Shore D	> 40
Elongation	ASTM D 412	%	> 100
Tensile strength	ASTM D 412	N/mm ²	20
Water absorption	DIN 53945	%	< 0.5
Adhesion to concrete	ASTM D 4541	N/mm ²	2

PACKAGING

- Parathane 2C TWP is sent in 24kg kit = 4 kg + 20 kg (A+B).

GENERALITIES ABOUT APPLICATION

Substrate preparation	Clean the surface using jet water, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, release agents, cured membranes must be removed. Non-adhesive and non-cohesive parts must be removed. Fill surface irregularities with the necessary product.
Primer	Apply Parathane Epoxy Primer on concrete substrates. Apply Parathane Primer on metal substrates.
Crack treatment	Seal cracks, holes and the edges of the tank walls and floor with Parathane Mastic, the polyurethane mastic, after the primer application.
Mixing	Mix the two components using a low speed (300 rpm) mixer. Pot life once the two components have been mixed is 30 min in 20°C. It can be increased by keeping the mix in a cooler place, away from the sun, in a separate wide and shallow container.
Application	Apply with roller in two coats with consumption per coat of 700 gr/m ² .
Consumption	Consumption per coat: 700 gr/m ² . Minimum total consumption: 1.4 kg/m ² .
Cleaning	Clean tools and equipment with Parathane Solvent. Rollers are not be reusable.

COMPLEMENTARY INFORMATIONS

Drinking water	The minimum delay for drinking water storage in water tanks is 28 days after Parathane 2C TWP application.
Values	Where 2 values for given characteristics are shown, the first is for longitudinal direction and the second is for the cross direction.
Tolerances	The average values derived from standard tests and are subject to the usual production variations. Some slight variations can be noticed as the values are based on the average values obtained from several plants.
Modification(s)	Our company reserves the right to modify its composition as a result of technologic and experiments improvements. This product data sheet supersedes the previous edition, to obtain the up-date technical data sheet, please contact our technical department
Hazardous classification	This product's Safety Data Sheet is available here: https://www.siplast.fr/profil/maitres-ouvrage-maitres-oeuvre/fds
Complementary information	This document is only a product technical data sheet, regarding each waterproofing design, please, consult the concerned technical agreement and in case of doubt contact our technical department.
Storage	This product is packaged in cans set up vertically on pallet or wooden box. It must be stored vertically under shelter, away from heat sources and humidity. This product can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5-25°C. Once opened, use as soon as possible