



EPOXY RESIN 51-POOL

Two component 100% solids, Thixotropic Pool Paint

DESCRIPTION

EPOXY RESIN 51-POOL is a two component, thixotropic, solvent free, epoxy paint formulated to maximize pot-life and adhesion without the use of solvents or diluents. It has excellent chemical resistance, high impact and abrasion resistance.

APPLICATIONS

- Swimming pools
- Water tanks
- Concrete protection
- Protection of steel and other metallic surfaces.

FEATURES & BENEFITS

- Solvent free
- Long pot-Life
- Excellent adhesion
- Excellent resistance to chemicals
- Excellent mechanical properties, high tensile and tear strength, abrasion resistance.
- Inhibits fungal and bacterial growth

APPLICATION

Concrete substrate conditions (standard):

- Hardness: $R_{28} = 15\text{MPa}$
- Humidity: $W < 5\%$
- Temperature: from $12\text{ }^{\circ}\text{C}$ - $35\text{ }^{\circ}\text{C}$
- Relative humidity: $< 85\%$

Clean the surface thoroughly, mechanical grinding is highly recommended. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, curing membranes must be removed. Fill surface irregularities with **EPOXY RESIN 21-T**.

In case of using jet water to clean the pool substrate ensure the substrate is completely dry prior to application of either primer or coating.

MIXING:

Before mixing component A+B, mix component A thoroughly. Pour Component B into the Component A pail and mix using a low speed (300rpm) electric drill until mixture is completely homogenous. Pay particular attention to the wall lining and bottom of the pail.

PRIMING:

Prime all surfaces with **AQUADUR** or **AQUASMART-DUR** and allow 12-24 hours before applying **EPOXY RESIN 51-POOL**.

Possible Problems after Application:

- The pool is filled too soon before the paint is completely cured, causing a blush over the surface which looks like fading or chalking.
- Super-chlorinated water may cause a bleached-out look.
- Shock of calcium hypochlorite can cause a white, bleached look to the paint film, leaving a whitish deposit
- Iron in the water from rust in the filter system may leave deposits and stain the film.
- All epoxies will chalk to some degree due to exposure to UV rays of the sun.

PACKAGING

5Kg + 1Kg Pails

SHELF LIFE

EPOXY RESIN 51-POOL can be kept for minimum 12 months in the original unopened pails at a temperature of $5\text{ }^{\circ}\text{C}$ - $25\text{ }^{\circ}\text{C}$ in dry places.



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TECHNICAL SPECIFICATIONS

The Liquid product:

PROPERTY	UNITS	METHOD	SPECIFICATION
-Pot Life (25°C) & 55% RH	min	Internal Method	60
-Mixing Ratio (Comp.A:Comp.B)			5:1
-Solids Content	%	Internal Method	99.8%
-Viscosity (initial mixing) (BROOKFIELD)	cP	ASTM D2196-86, at 25°C	3000-5000

The Coating:

PROPERTY	UNITS	METHOD	SPECIFICATION
-Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	>95
-Max. Temperature short time (shock)	°C	-	150
- Recoat Time ((25°C) & 55% RH)	hours	INTERNAL	24
- Filling of the Pool	days	INTERNAL	7
- Abrasion Resistance (TABER)	Mg loss	ASTM D6040, CS17 WHEELS, 1000 REVS, 1000 GR	55
- Adhesion to Concrete	N/mm ²	ASTM D4541	>3
- Compression Strength	N/mm ²	DIN EN 196-1	>50
- Shrinkage	%	INTERNAL	0
-Resistance to acids, solvents, lubricants etc.	-	INTERNAL	Excellent

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