INDUSTRIAL COATINGS

ALL in ONE POLYURETHANE PAINT X-88

Technical Data Sheet

Reviewed: 08.10.2024

DESCRIPTION

ALL in ONE POLYURETHANE PAINT X-88 is a 2-component marine-grade coating based on aliphatic polyurethane with outstanding anticorrosion properties. It is suitable for most surfaces such as wood, iron, aluminum, copper, polyester, concrete, stone, ceramics and many other difficult surfaces when prepared properly. It offers high performance, excellent adhesion, elasticity and hardness and is highly resistant to abrasion and mechanical stress. It is highly resistant to chemicals, solvents, petroleum and mild caustic liquids. Its special aliphatic polyurethane formulation provides excellent protection from exposure to sunlight and from adverse weather conditions, especially for industrial places, close to the sea or exposed to heavy atmospheric pollution. Provides a durable and long-lasting finish. Suitable for indoor and outdoor use.

ADVANTAGES

- Excellent adhesion, hardness and elasticity
- High resistance to friction and mechanical stress
- High resistance to chemical solvents, petroleum and mild caustic liquids
- Excellent protection against adverse weather conditions
- Ensures a durable and long-lasting finish
- Excellent color and gloss retention
- Superior UV resistance
- High coverage
- Good application properties

APPLICATIONS

Suitable for painting:

- Metal surfaces such as railings, doors, metal constructions and general metal structures such as metal bridges and metal fuel tanks (externally).
- Wooden surfaces such as shutters, doors, paneling, fences, etc.
- Concrete surfaces such as floors, microcement coatings, showers, walls, pools, jacuzzi etc.
- Reinforced fiberglass in boats, yachts, panels
- Stone wall and floor coverings.
- Many other surfaces when prepared properly for marine and industrial applications or any other application when top performance is required.

INSTRUCTIONS FOR USE

Surface preparation

1. Surfaces must be clean and dry. Dust, oils, salts, moisture and rust prevent the adhesion of the paint.
2. Surfaces already painted must be thoroughly cleaned by chemical or mechanical means and thoroughly sanded.
3. Loose surfaces are unsuitable for painting and the paint will peel off.
4. New concrete surfaces must be painted at least one month after their construction.
5. If the surface is washed with water, it must be dried for 2-3 days before painting.

Priming

Tiles, sanitary ware and generally smooth non-porous surfaces are primed with **ALL in ONE EPOXY PRIMER P-76** to ensure increased adhesion and durability.
Concrete surfaces are primed with **ALL in ONE EPOXY PRIMER P-76** to stabilize and strengthen them.
Concrete surfaces that experience rising moisture are primed with a 100% solids (solvent free) two-component epoxy primer **EPOXITE DRYMAX WET**.
Metal or aluminum surfaces are recommended to be primed with **ALL in ONE EPOXY PRIMER P-76** anti-rust and anti-corrosion epoxy primer for additional protection against corrosion. Otherwise, degrease with thinner and apply paint directly.
On new wooden surfaces, apply the paint directly after sanding the surface and removing dust. Degrease oily wood with acetone or nitro solvent. For marine applications or if the wood is not in good condition, old coatings must be mechanically removed and **ALL in ONE EPOXY PRIMER P-76** must be applied.
Polyester surfaces should be sanded and dust cleaned before painting. For greater durability and strong anti-osmotic protection, prime with **ALL in ONE EPOXY PRIMER P-76**.
On stone surfaces apply directly if the stone is firm. If the stone is brittle, strengthen it with the transparent epoxy primer **EPOXITE DUR**.

Application

1. Components A (resin) and B (hardener) are already packed in separate containers with a preset mixing ratio. Any modification of the mixing ratio will result in improper polymerization of the mixture.
2. Mix the 2 components after carefully mixing A' component separately. Mixing is done carefully for 3-5 minutes using electric mixer (approx. 300rpm) taking care to ensure thorough mixing of the two components on the walls and the bottom of the pail.
3. Imperfect mixing will result in uneven curing of the coating with parts that will not cure at all.
4. After mixing the two components let the mixture stand for 5 minutes and then apply the coating diluted with DIL X 100, 5% - 10% for roller and brush application and 10% - 20% for spray gun application.
5. Apply two or three coats. Wait 12h (25ºC) – 24h (10ºC) to recoat.
6. The coating obtains its final properties 7 - 10 days after the application of the final coat.
7. Before application, read carefully all instructions and information relevant to its safe and best use (Safety Data Sheet).

REMARKS

- **ALL in ONE POLYURETHANE PAINT X-88** contains solvents. Ventilate adequately the working area. It is advised to use protective gloves and mask suitable for solvents.
- Application conditions: Substrate's moisture: <4%, Surface's and Ambient temperature: 12ºC - 35ºC, Relative Air Humidity: <70%.
- It is advisable to use protective clothing, gloves, hat and mask with filter suitable for solvents.
- Freshly painted surface must be protected from excessive humidity and rain for 36 – 48 hours.
- If recoating be carried out after 36 hours, the surface must be sanded with coarse sandpaper and dust must be removed.
- Curing as well as pot – life are affected by ambient temperature and humidity. Low temperatures and high humidity tend to increase pot – life while high temperatures and low humidity shorten the pot life.

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- Treatment such as sanding, flame cleaning, etc. of painted surfaces can create hazardous dust and fumes. Work in a well-ventilated area. Use appropriate personal protective equipment.
- Avoid painting surfaces in direct sunlight because bubbles may form on the surface of the paint.
- The substrate must be at least 3°C above dew point to reduce the risk of condensation or blooming on the paint's finish.

CLEANING
Clean tools immediately after use with **DIL X 100** solvent

COVERAGE
120 – 150 gr/m^2 per coat.
Apply at least 2 coats. Dark shades may need application of 3rd coat for full coverage.

TECHNICAL SPECIFICATIONS
Base: Aliphatic polyurethane
Color: White, Black, Gray RAL 7040 & others upon request
Finish: Gloss, Satin & Matte
Odor: Characteristic – Solvent
Mixing Ratio: A:B = 4:1 w/w
Specific gravity (A+B): 1,20 ± 0,05 kg/Lt 25^{0}C
Viscosity (A+B): 1000 ± 500 cps 25^{0}C
Thinning: 5 – 20% with **DIL X 100** solvent
Hardening temperature: +10ºC to +35ºC
Mixture Pot Life: About 2 hours (+25ºC)
Touch dry: 4 hours (+25ºC)
Recoating: 12 – 24 hours (+25ºC)
Walkability: 24 hours (+25ºC)
Full cure: 7 – 10 days (+25ºC)
VOC (Volatile Organic Compounds): EU limit value for this product (cat. A/j): 500 gr/Lt (2010). This product (A+B mix) contains max 498 gr/Lt VOC

STORAGE
Products should be stored in a dry and cool place at a temperature of 5ºC – 35ºC, away from sources of ignition. Protect from humidity and direct sunlight.

SHELF LIFE
24 months from the production date in the above mentioned storage conditions. The product should remain in the original unopened packaging bearing the manufacturer's batch number.

PACKAGING
SETS (A+B) of 1kg, 3kg

HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION
Advise latest Safety Data Sheet before application.

Component A

UFI: 4H00-90FD-200U-TPUV

Component B

UFI: AM00-T04S-D00C-F1EX

PACKAGING	CODE	BARCODE
1kg WHITE GLOSS	3503	5204094035039
3kg WHITE GLOSS	3504	5204094035046
1kg WHITE MATTE	1992	5204094019923
3kg WHITE MATTE	1993	5204094019930
1kg WHITE SATIN	1994	5204094019947
3kg WHITE SATIN	2014	5204094020141
1kg TR BASE GLOSS	1951	5204094019510
3kg TR BASE GLOSS	1952	5204094019527
1kg TR BASE SATIN	1995	5204094019954
3kg TR BASE SATIN	2024	5204094020240
1kg TR BASE MATTE	1996	5204094019961
3kg TR BASE MATTE	2025	5204094020257
1kg BLUE RAL 5015	1997	5204094019978
3kg BLUE RAL 5015	2026	5204094020288
1kg BLUE RAL 5010	1998	5204094019985
3kg BLUE RAL 5010	2027	5204094020271
1kg RED RAL 3020	1999	5204094019992
3kg RED RAL 3020	2028	5204094020288
1kg GREEN RAL 6005	1930	5204094019305
3kg GREEN RAL 6005	1931	5204094019312
1kg GREY RAL 7040	3036	5204094030362
3kg GREY RAL 7040	3037	5204094030379
1kg BLACK	3038	5204094030386
3kg BLACK	3039	5204094030393

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