Pool & Floor Paints

PREMIUM POLYURETHANE FLOOR PAINT 2K

Technical Data Sheet Reviewed: 07.06.2024

DESCRIPTION

PREMIUM POLYURETHANE FLOOR PAINT 2K is a high performance 2 component acrylic – urethane paint for indoor and outdoor cementitious floors. It has excellent adhesion properties, hardness and strong resistance to abrasion and mechanical wear. It is highly resistant to chemicals, solvents, refinery products and caustic liquids. Its special acrylic – urethane technology guarantees a durable, long-lasting finish.

ADVANTAGES

- For indoor and outdoor use
- Excellent adhesion properties
- Excellent hardness and elasticity
- Excellent abrasion and mechanical wear resistance
- Excellent resistance to water and seawater
- Excellent resistance to chemicals, solvents, refinery products and caustic liquids
- Contains strong UV filters - excellent long term UV stability
- Strong resistance to chalking
- Extreme durability in challenging weather conditions
- Guarantees a durable, long-lasting finish
- Extreme resistance to discoloration

APPLICATIONS

- Suitable for interior and exterior floors such as factories, warehouses, garages and generally of any surface exposed to everyday wear from abrasion and chemicals.
- Suitable for cement-based substrates, such as cement mortars, concrete, asbestos cement
- Suitable for existing epoxy and polyurethane floors, after proper substrate preparation
- Suitable for application on steel and iron surfaces, after proper substrate preparation.

INSTRUCTIONS FOR USE

Surface preparation

1. Surfaces should be clean from dust and any oily residues. Dust, oil, or rust, seriously affect the coating's adhesion.
2. Substrate's moisture content should be <5%.
3. Atmospheric humidity must be less than 60%.
4. Loose concrete substrates and screeds are not suitable for painting as the coat will peel.
5. New concrete surfaces or cement mortar should be painted one month after construction.
6. Old painted surfaces must be completely cleaned with chemical or mechanical means and sanded to a smooth finish.
7. The wet surface must be allowed to dry for at least 3 - 5 days prior to the paint application.

Priming

Non-porous substrates should be primed with solvent-based 2-component epoxy primer, **EPOXITE DUR**, to ensure adhesion. Solid and porous cement-based substrates can be primed with **EPOXITE DUR** or **PREMIUM POLYURETHANE FLOOR PAINT 2K** diluted up to 20% with polyurethane solvent (**DIL X 100**) Surfaces with rising damp should be primed with 100% solids solvent free epoxy primer **EPOXITE DRYMAX WET**.

Steel and iron surfaces should be primed with an anti-osmosis & anticorrosive primer **EPOXITE OSMOSE PRIMER** for corrosion protection.

Application

1. Components A (resin) and B (hardener) are already packed in separate containers with a preset mixing ratio of 4:1 by weight (100A : 25B). Any modification of the mixing ratio will result in improper polymerization of the mixture.
2. Mix the 2 components after careful mix of each component separately. Stirring is done carefully for 3-5 minutes taking care to ensure thorough mixing of the two components on the walls and the bottom of the pail. Mixing can be done with a low-speed mixer (200-300rpm).
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 10 - 15 minutes and then apply the coating as is or diluted with **DIL X 100** solvent up to 10% for roller and brush application and up to 20% for spray gun application.
5. Application is done with a brush, roller, or spray gun in two or three coats.
6. Each layer can be recoated after 12 hours in high temperatures and after 24 hours in low temperatures.
7. Coated surfaces are walkable after 12 hours in high temperatures (30ºC) and after 24 – 48 hours in low temperatures (15ºC).
8. The paint obtains its final properties 7 – 14 days after the application of the finishing coat.

REMARKS

- Application conditions: Substrate's moisture: <4%, Surface's and Ambient temperature: 12ºC - 35ºC, Relative Air Humidity: <70%.
- **PREMIUM POLYURETHANE FLOOR PAINT 2K** contains solvents and during application good ventilation of the space should be ensured.
- It is advisable to use protective clothing, gloves and mask with filter suitable for solvents.
- The coated surface should be protected from humidity for 36 - 48 hours.
- Should recoating be carried out after 48 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.
- Before using **PREMIUM POLYURETHANE FLOOR PAINT 2K** read carefully all instructions and information relevant to its safe and best use.
- Treatments such as sanding, welding, burning off, etc. of paint films may generate hazardous dust and/or fumes. Work in well ventilated areas. Use suitable personal (respiratory) protective equipment, as necessary.
- 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 with nitro or polyurethane solvent **DIL X 100**.

COVERAGE

300 – 350 gr/m^2 for 2 layers on properly treated surfaces

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TECHNICAL CHARACTERISTICS

Base: Acrylic polyurethane
Color: Grey RAL7040, White and other custom colors (min 100kg)
Specific Gravity: 1, 19 ± 0, 2 gr/cm^3 25^{0}C
Viscosity: 2000-3000 cps 25^{0}C
Mixing Ratio (A+B): 4:1 by weight
Thinning: 0 – 20% with polyurethane solvent
Traffic: after 12 hours (30^{0}C) - 48 hours (12^{0}C)
Recoating (2nd): After 12 hours (30^{0}C) - 24 hours (15^{0}C)
Maximum strength: After 7 days (30^{0}C) - 14 days (15^{0}C)
Pot Life: 2 hours at 20^{0}C, after thorough mixing
VOC (Volatile Organic Compounds) EU limit value for this product (cat. A/j): 500 gr/Lt (2010). This product (A+B mix) contains max 459 gr/Lt VOC

STORAGE

Products should be stored in a dry and cool place at a temperature of 5^{0}C -35^{0}C, away from sources of ignition. Protect from humidity and direct sunlight.

SHELF LIFE

At least 18 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

Grey RAL 7040, White & TR Base sets 1kg, 3 kg & 12,5kg and other colors upon request.

Available in **GLOSS** and **SEMIMATTE** finish.

HEALTH AND SAFETY INFORMATION

Consult MSDS prior to application

The directives contained in this technical data sheet are the result of our long experience from real life applications and the research testing of our research and development laboratory and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications, which are beyond our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. We are liable only for our products for being free from faults and of consistent quality. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. The present edition of this technical datasheet automatically cancels any previous ones concerning the same product.

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