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TECHNICAL DATA SHEET

VARNISH SOLVENT ANTI-SLIP

DESCRIPTION

VARNISH SOLVENT ANTI-SLIP is a primer for acrylic polyurethane finishes, specially developed for varnishing floors and coatings indoors and outdoors. It is an aliphatic acrylic varnish, used mainly for the decorative finishing of trafficable floors that require an anti-slip treatment (**anti-slip, high resistance and heavy traffic for floors**). Recommended for the finishing of new floors or the rehabilitation of floors made of troweled concrete, self-leveling screeds, microcements, stamped concrete, etc.

COMPOSITION

- Hardener Varnish Solvent: acrylic finish.
- Varnish Solvent: semi-opaque acrylic finish.
- Primer and two-component acrylic polyurethane finish based on aliphatic isocyanate and polyacrylate resins, which harden by chemical reaction at room temperature.
- Hardener based on non-yellowing isocyanates with very high physicochemical performance (polyurethane hardener).
- Mixing ratio: **3/1 by weight**.

USES

Non-slip treatment compatible with all substrates and types of indoor and outdoor floors: floor paint, cement, concrete, tiles, slabs, stone, etc. Ideal for smooth, slippery or frequently wet floors: stairs, pool edges, outdoor terraces, bathroom or laundry room floors, etc.

Substrates

All types of laminated substrates or composites based on PE or polyurethane resins, properly cured. Also on previously set cement and concrete; on all types of ferrous substrates, steel, zinc, aluminum, non-ferrous metals, stainless steel, galvanized surfaces, certain plastics (except PE and PP), epoxy primers and surfaces painted with alkyd enamels (previously repaired).

Substrate preparation: iron and steel

According to UNE 48302 (ISO 8501-1), to remove rust and mill scale, sandblast immediately before painting to Sa 2 or brush to St 2. On dirty surfaces, degrease beforehand and sand with No. 240-260 abrasive.

Composites

Degrease properly and apply one or two coats of product, depending on the desired finish.

PROPERTIES

Significant reduction of water absorption in the treated materials and, as a result:

- Resistant to solvents, gasoline and chemical products.
- **Anti-slip** varnish thanks to its special surface finish.
- Emphasizes its **non-stick** character, preventing adhesives from bonding.
- Thanks to its textured finish, it helps mask reliefs and imperfections in the substrate surface.
- Increased resistance to atmospheric agents (SO_2 acid rain).
- Resistant to UV radiation.
- Does not age through the effect of rust, as it has no unsaturated double bonds.
- Limits the growth of fungi and mold (greening).
- Helps to fight efflorescence.
- Minimal sensitivity to freeze-thaw cycles.
- Preserves the initial appearance and gas permeability ("breathing").

STORAGE AND PACKAGING

- Store the product away from heat and electrical sources.
- Do not smoke in the storage area.
- To avoid spills, once opened, containers must be closed carefully and kept upright.
- Maximum shelf life: **12 months**.
- Once opened, the hardener absorbs moisture from the air and must be used as soon as possible, as its viscosity increases and it becomes unusable.

PACKAGING SIZES

- Product: **3 kg** VARNISH SOLVENT.
- Hardener: **1 kg** HARDENER.

NOTES

Regarding its use, follow the instructions on the container label and observe the ventilation and handling precautions given in the product Safety Data Sheet (SDS), in accordance with current legislation.

This information reflects the current state of our knowledge and provides information about our products and their possible applications. Its purpose is therefore not to guarantee specific properties of the products or their suitability for a particular application. Any existing industrial property rights must be respected. Quality control parameters will be detailed in the specification sheet of each product.

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TECHNICAL CHARACTERISTICS

VARNISH SOLVENT	Value
Density	≤ 1.4
Solids	80-100 ± 4
Pot life	3 h
Product viscosity	20″ ± 5″ Ford cup 8
Mixture viscosity	42″ ± 5″ Ford cup 4
Gloss	15 ± 5
Application temperature	< 35 °C
Time between coats	12 h
Dry film thickness	100 ± 20 µm
Finish	Matt, satin, gloss
Color	Semi-opaque. Can be tinted

HARDENER	Value
Physical state at 20 °C	Liquid
Appearance	Not determined
Color	Not determined
Odor	Not determined
Boiling point at atmospheric pressure	139 °C
Vapor pressure at 20 °C	711 Pa
Vapor pressure at 50 °C	3782 Pa (4 kPa)
Evaporation rate at 20 °C	Not relevant
Density at 20 °C	1029 kg/m^3
Relative density at 20 °C	1.029
Dynamic viscosity at 20 °C	3000 cP
Kinematic viscosity at 20 °C	2914.66 cSt
Kinematic viscosity at 40 °C	Not relevant
Concentration	Not relevant
pH	Not relevant
Vapor density at 20 °C	Not relevant
n-octanol/water partition coefficient at 20 °C	Not relevant
Water solubility at 20 °C	Not relevant
Solubility properties	Not relevant
Decomposition temperature	Not relevant
Flash point	34 °C
Autoignition temperature	315 °C
Lower flammability limit	Not determined
Upper flammability limit	Not determined

DIRECTIONS FOR USE

Mix component A (VARNISH SOLVENT ANTI-SLIP, 3.3 kg) with component B (HARDENER, 1 kg). Always shake the product before use.

APPLICATION SYSTEMS

General application rules

Continuous air spray gun or airless gun. Dilute the mixture with a suitable solvent to a viscosity of 28-30″ Ford No. 4, choosing the thinner according to the purpose of the application:

- Fast-drying thinner.
- Medium-drying thinner.
- Slow-drying thinner (very good spreadability).

For airless application, the output pressure must be 100 to 150 kg/m^2.

Brush or roller. Dilute to the optimum application viscosity, depending on temperature, with slow-drying thinner to obtain good spreadability and brushability. Coats may be applied wet-on-wet, or else 12 to 24 hours apart.

Application rules on microcements

Always apply the VARNISH SOLVENT + HARDENER mixture over a prior coat of PRIMER VARNISH. For the 1st coat, it is recommended to mix VARNISH SOLVENT with normal VARNISH THINNER in summer and fast-drying thinner in winter.

Consumption

- 1st coat: **50 g/m^2 max.** + hardener (33 %) + thinner (15 %). Consumption will never be higher.
- 2nd and 3rd coats: **100 g/m^2 max.** + hardener (33 %) + thinner (15 %).
- If applied by roller, the quantities are the same but with 5 % more thinner.

Drying system

Air drying by chemical reaction. Do not dry below 10 °C or above 80 % relative humidity. Maximum properties are reached 7-10 days after application; this can be accelerated by applying heat, not exceeding 50 °C, after 30-60 minutes of flash-off.

PERFORMANCE

Designed to obtain enameled articles with a single product: it is suitable as a first coat, thanks to its good adhesion, and as a final coat, thanks to its excellent finish. As a finish it has high chemical resistance thanks to the selected acrylic isocyanate resins.

- Chemical resistance to common cleaning products and to the most aggressive ones, according to UNE-EN ISO 2812-1. Waterproofing tests carried out with hydrochloric acid.
- Hot water resistance according to UNE-EN ISO 2812-2.
- Excellent mechanical resistance thanks to its high flexibility, according to ISO 1520 (cupping test) and UNE-EN ISO 6272 (falling mass test).

Recommended, for its high physicochemical performance, for painting composites where high chemical and mechanical performance is required.

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IMPORTANT NOTES AND RECOMMENDATIONS

- Do not apply the product in adverse weather conditions: cold weather, rain, etc.
- The ambient temperature for application and curing must be between **6 and 35 ºC**.

DILUTION

The product can be diluted with VARNISH THINNER over a wide range: from **10 to 30 %**, depending on the substrate, the temperature and the type of application (spray gun or roller).

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