

Polix

Description

Two-component finish, based on special polyurethane resins. Characterized by excellent coverage and good fullness. It gives the substrate on which it is applied high resistance to abrasion and impact, excellent durability and colour retention, good resistance to light and bad weather, acids and alkalis, detergents, oils and greases.
Available in glossy or satin version.

Uses

As a top-coat finish for the painting of agricultural machinery, machine tools, metal carpentry, artifacts, industrial flooring, furniture.

Surface preparation

In order to obtain excellent results, it is of prime importance to accurately clean the substrate.

Iron surfaces: remove any trace of rust, mill scale, grease and humidity by sandblasting (grade SA 2,5), or accurately clean by mechanical means and degrease with solvent. Apply 2 coats of EPOX FONDO or LUBENS ANTIRUGGINE RAPID TOP.

Galvanized steel sheet: carry out phospho-degreasing or alkaline degreasing, or accurately remove any slag and oxidation by sandpapering and subsequent degreasing with organic solvent. Apply 2 coats of EPOX FONDO or LUBENS ANTIRUGGINE RAPID TOP.

Aluminium and light alloys: carry out chromate or phospho-chromate conversion coating or, alternatively, lightly sandpaper and degrease with organic solvents; then, apply EPOX FONDO.

Cement surfaces: apply primer BOSTON PRIMER appropriately diluted with water according to substrate absorption.

Once the surface to be painted has been chemically or mechanically cleaned, do not allow the metal to stay unprotected for longer than 12 hours without applying a temporary protective coating or a coat of anti-rust paint, in order to prevent the formation of oxidation that could impair the lifetime of the top-coats.

Application

Apply 2 coats of product (appropriately diluted) by roller or spray. Before applying, accurately mix the product until uniform colour and consistency are obtained, then pour the content of the hardener and mix until completely blended.

Mix 100 parts of BASE (base vehicle + pigment dispersions) with 25 parts of INDURENTE POLIX AR.

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Poor mixing and weighing of base and hardener may impair curing and final chemical-physical properties.

The prepared mixture has a working time of 2-3 hours (at high temperatures, the *pot-life* significantly shortens); it is advised not to use the product once catalysis has taken place, as the cured film may poorly adhere to the substrate. During application, it is opportune to comply with the recommended thickness for each coat. Otherwise, and especially with high environmental temperature, pinholing may occur on the painted surface.

Apply at environmental temperatures between 10°C and 30°C and with relative humidity lower than 60%. Do not apply under direct exposure to sun. Once applied, outdoor surfaces must be protected from rain until complete cure which normally, at 20°C, takes place after ca. 24 hours.

Dilution

Ready to use, add max. 5% (by weight) of DILUENTE X.

Cleaning tools

With DILUENTE N immediately after use.

Storage

12 months in sealed container, away from sources of heat, in a cool and ventilated place, repaired from frost.

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Technical data

PRODUCT	Polyurethane top-coat
SPECIFIC WEIGHT	0,950 ± 0,050 kg/l
VISCOSITY	400 ± 50 cP Brookfield at 23°C (base + hardener)
GLOSS	Glossy = 80 ± 5 g.u. (60°) Satin = 40 ± 5 g.u. (60°)
COLOUR	White, RAL colours
RECOMMENDED THICKNESS	50-60 dry µm for each coat
RECOMMENDED COATS	2 coats
RECOAT TIME	12-18 hours
CATALYSIS RATIO	Component A 100 – component B 25 (by weight)
POT LIFE AT 23°C	2-3 hours
APPLICATION METHOD	Air-mix spray gun: nozzle Ø 1,2-1,5 mm spray pressure 3-4 atm Airless: nozzle Ø 0,3- 0,4 mm compression ratio 30:1 pressure 130-160 atm Roller
THEORETICAL YIELD	6-8 m²/l for 2 coats
DUST-FREE TIME	20-30 minutes
TOUCH-DRY (23°C)	3-4 hours
DEEP-DRY (23°C)	24 hours
COMPLETE CROSSLINKING	7 days

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