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RESICOLOR 480

BI-COMPONENT POLYURETHANE ENAMEL

High quality bi-component coloured enamel based on polyurethane, aliphatic isocyanide resins for protections requiring high chemical resistance, excellent mechanical resistance to wear and tear and perfect colour-fastness and gloss-fastness in both indoors and outdoors applications.

Areas of use

Realisation of waterproof protective coatings with high aesthetical value for concrete, plaster and steel (treated in advance) walls and floors for indoors or outdoors applications subject to weathering effect; more specifically it is the finishing layer for FINOMIX floors painting cycle.

- Food industry: floors in warehouses, seasoning cells (sausages, cheeses), food distribution centres, supermarkets, fishing industry.
- Varnishing in the chemical, galvanic and pharmaceutical industry which require good resistance to diluted acid and basic solutions.
- Thanks to easy cleaning, it can be used in the precision mechanical industry and the goldsmith's industry.
- Sports facilities: floors in gyms, corridors and changing rooms, stand finishing.

Description

RESICOLOR 480 creates a glossy thermal-hardening film with high hardening power, excellent appearance and mechanical resistance to wear and tear and scratch. It features good resistance to diluted acid and basic solutions, fuels, oils and lubricants.

- Excellent colour fastness in time and towards UV rays and weathering, enabling both indoors and outdoors application;
- Its high covering power allows varnishing with extremely low consumptions;
- Hardening by means of poly-addition and therefore extremely reduced shrinkage;
- Smooth or "orange peel" finishing;
- Fast hardening and commissioning approx 48 hours after application;
- Physical and mechanical characteristics which do not alter in time.

How to use

Preparation of the support

The surface to be treated must be clean, healthy, dry, crumbly part and cement grout-free: best adhesion is achieved by hardening it with sand-blasting, sand-papering, acid washing, smoothing or shot-peening treatment. Remove any trace of dust and dirt using an aspirator.

Cement supports affected by rising damp must be treated with two coats of RESICOL 118 (vapour barrier).

Very porous concrete surfaces or surfaces with cracks and Ω (omega) cavities, e.g. forming concrete, must be levelled in advance with RESICOL 100, epoxy adhesive.

Application on metals requires accurate preparation of the support: elimination of oils, fats, varnishes and rust through abrasive process or white metal sanding (SA 2 – SA 3 degree).

Application of the primer or bottom coat

In case of concrete supports, apply an epoxy bottom coat like RESICOLOR 451 (see FINOMIX varnishing cycle sect. 1.1) or AUTOMIX R70-R72 epoxy-cement.

On steel, apply RESICOLOR 425 primer.

Concrete and bricks may be varnished after application of RESICOL 160, a highly penetrating epoxy compound which aids adhesion on very porous materials (200 g/m²consumption) and wait at least 24 hours before applying RESICOLOR 480.

Preparation of the product

Pour component B into component A and blend at slow speed for 3' – 5' using drill with helix/spiral to reduce air inlet as much as possible; during this operation, carefully scrape also the bottom and the sides of the bucket.

Application

Brush, roller or airless spray apply, one or two coats, with an average consumption per coat of 80 - 120 g/m². In case of roller applications where there are no strict technical needs, use short hair Mohair rollers specific for polyurethane finishing.

To achieve an averagely anti-slippery surface, add a small amount of glass microspheres.

This product can be diluted with 5% max RESISOLV POLY 40 solvent.

Notes

Application of a new coat of RESICOLOR 480, 48 hours after the previous one, is possible only following sanding with fine abrasive paper, dust suction and washing using solvents.

During the hot season it is recommended not to use the product in the hottest hours of the day and on surfaces that are especially exposed to the sun.

Do not use in conditions of high humidity, during rainy days or with possible rain and in the hours following application.

Presence of water has a negative effect on adhesion: wet foundations must be dried out as much as possible with air or better with gas flame.

Technical characteristics

Adhesion to concrete(withRESICOLOR 451 primer)	>3,5 N/mm ²
Adhesion to steel (*)	> 2,5 N/mm ²
Cross-hatch test	
onRESICOL 451	ISO 0 - ASTM 5B
On steel	ISO 0 - ASTM 5B
Resistance to fire class	Class 1
Resistance to abrasion: Taber (500 g 17 weights concrete wheel, 1,000 cycles)	80mg
Resistance to impact(1 kg , Ø 20 mm)	20 cm/kg
Viscosity at 25°C	128 cP
Specific weight of the mixture	1,25 kg/dm ³
A + B mixture ratio	100 + 33

(*)this value refers to product applied with RESICOLOR 425 primer

Use and hardening times

Following mixture, the reaction between the two components takes place immediately. Processing time is therefore limited and depends on temperature.

Temperature	Pot life	Tack free	Paintable again after
10°C	7hours	300 min	24hours
20°C	3 hours	150 min	12 hours
30°C	2 hours	120 min	5 hours

Application with temperatures lower than +5C⁰ and higher than +30C⁰ is not recommended.

Full hardening takes place after seven days with a temperature notlower than +20 C⁰.

After at least 48 hours from application have gone by, it is necessary to sand the surface with abrasive retina disc (120 grain), before proceeding with painting.

Consumption

To achieve hard and compact films, consumption ranges from 80 to maximum 150 g/m²/coat; higher consumption results in a reduction of surface hardness.

Packaging and storage

6.7 Kg and 20 Kg A + B packages.

If stored in its original and sealed package, the products remains unaltered for a year if kept in a closed and protected environment with a temperature between 10 and 30 °C.

Cleaning of tools and health precautions

To clean tools use solvents such as acetone or methyl-ethylketone.

Epoxy resins and hardening agents may cause irritations: please avoid any contact with the skin and especially with the eyes and ensure proper ventilation during use.

Wear gloves, protective suit, goggles or protective visor. People who have to work with epoxy resins for long periods are advised to use protective creams.

In case of contact with the skin, immediately clean with a cloth soaked in denatured alcohol and wash with water or neutral soap or handwash paste. Then use a nourishing cream.

In case of contact with eyes or mucosa, do not use alcohol. Rinse immediately with running water and neutral soap for 10/15 minutes, then seek medical advice.

Do not rinse with solvents.

The information supplied in this sheet is the result of the best practical and laboratory experiences of RESIMIX, which guarantees its products when used according to the instructions supplied. It is nonetheless up to the customer to ensure the product is suitable for the intended use. The manufacturer declines any responsibility for incorrect use or uses beyond his control. RESIMIX reserves the right to make changes to the data. For any request, please contact the RESIMIX Technical Assistance Office.