



RESICOLOR 474

WATERBORNE CLEAR COAT BASED ON HYDROXYLATED ACRYL-POLYURETHANE COPOLYMERS AND ALIPHATIC ISOCYANATES

Transparent varnish for interiors based on aliphatic isocyanates and polyurethane and acrylic hydroxylated copolymers which, after application, hardens by crosslinking at room temperature. Product in aqueous emulsion with low environmental impact, it does not release harmful vapours during use.

Available in glossy, semi-glossy and matt version.

The product is also available loaded with polypropylene microfibres and inorganic transparent hollow microspheres to impart more roughness and a higher coefficient of friction to the coated flooring.

The versions with superior anti-slip characteristics are called AS (Anti-Skid) and HG (High-Grip).

Areas of use

RESICOLOR 474 is suitable for all applications where a clear protective finish is required.

In particular it can be used as:

- anti-scratch finish for decorative floors, DECORWAVE, AUTOMIX;
- waterproofing and protection of concrete, plaster, terracotta, limestone and silica and cementitious flooring;
- transparent protective treatment of industrial floors with quartz dusting, to facilitate cleaning, improve wear resistance and reduce the absorption of liquids;
- revives the aesthetic aspect and restores the old ceramic floors;
- waterproofs and protects wooden flooring and products, enhances the typical grain of the wood and increases scratch resistance.

Features

RESICOLOR 474 protects the treated surfaces by forming a uniform glossy or opaque waterproof film, resistant to not excessively aggressive chemical solutions of acids and bases, to the action of ultraviolet rays and to common household and industrial detergents.

It is however essential to carry out preliminary tests to establish the compatibility and resistance of the finish against the chemical agents that will be used.

The RESICOLOR 474 film has the following characteristics:

- excellent adhesion to most dry substrates, suitably prepared;
- good resistance to wear and etching;
- good flexibility;
- stable in light;
- tones the color of the substrate (concrete, brick, stone, etc ...) giving a shiny, satin or matt effect.

How to use

Support preparation

The substrates to be treated must be clean and perfectly dry, properly abraded if necessary with sandpaper, carbide or diamond wheels with a grain size not exceeding 400.

The substrates must not have been treated with NOBLOB, oxalic acid and waxes of any kind.

The support and the air temperature must be maintained between 10 and 30 ° C, the humidity of the air must not exceed 65-70%. In case of low temperatures and / or high levels of relative humidity, the evaporation of water and co-solvents is greatly reduced by preventing correct closure of the film and the achievement of optimal mechanical characteristics.

In any case, apply only at temperatures higher than at least 3 °C to the dew point temperature.

Preparation of the product and application

Mix component A thoroughly before use.

If a previously used product is used, proceed with the filtering of component A before use.

Pour the entire contents of components A and B into a clean bucket and mix at low speed with a mixer drill equipped with a propeller for at least 3 minutes, be careful that too violent mixing could absorb an excessive amount of air and humidity that could compromise the aesthetic and performance characteristics of the hardened film.

Clean the walls and bottom of the bucket with a spatula and mix manually or with a drill for at least one minute.

Apply with short hair roller, brush or airless spray.

In case of spray application, an excess of pressure combined with high temperature and humidity conditions can cause the formation of micro foam which will give the film a veiled appearance.

Although not essential, we recommend that you fully use the contents of each container. If not, make sure it is perfectly sealed. In case of partial use of the package, the two components must be carefully dosed (by weight or by volume) in the proportions indicated on the label after mixing of component A.

After mixing the two components dilute with 10% (by weight or by volume) of clean water, preferably if demineralized, on the total weight (or volume) of A + B.

Under normal conditions of application, humidity and temperature, the pavement is ready for light pedestrian traffic after at least 48 ÷ 72 hours, for rubberized traffic and the application of operating loads wait for complete hardening which occurs after at least 7 ÷ 14 days (depending on the room temperature).

If applied in two coats, ventilate the rooms well and between the first and second coats, wait at least 4 hours to encourage complete evaporation of the solvent. In case of longer waits, before the second coat, always carry out a light sanding with fine abrasive paper (220) followed by aspiration. (Do not sand if the AS and HG versions are applied).

RESICOLOR 474 has good wear resistance, however where traffic is more intense, the coating wears out more than in areas of less transit, in these areas the friction coefficient may decrease over time and no longer meet the legal requirements and / or project.

To restore the required conditions of low slipperiness and avoid unpleasant anti-aesthetic effects due to overlaps and product overlaps, it is necessary to mechanically remove the old coating completely and reapply the product again as instructed.

Technical features

Physical appearance of the product	comp. A	milky liquid
	comp. B	clear liquid
	mix A + B	milky liquid
Hardened film appearance		glossy, semi-glossy, matt clear film
Hardness		8H
Wear resistance:		
Taber (CS 17, 500 g, 500 cycles)		20 mg
Taber (CS 17, 500 g, 1000 cycles)		30 mg
Cross-hatch test		
	on RESICOL 451	ISO 0 - ASTM 5B
	on AUTOMIX R90 – R92	ISO 0 - ASTM 5B
Solids content (A + B)		40 % ± 2
Viscosity (Brookfield at 23°C)		circa 200÷300 cP
Value refers to 10% diluted product		
Pot-life (a 23 ± 2 °C)		> 60 minutes
Density		circa 1,00÷1,10 kg/dm ³
Ratio A + B (by weight or by volume)		100 + 25

Hardening time

After applying the product on the substrate, the hardening reaction begins: the time available is limited and dependent on the temperature and humidity of the air and the substrate.

Temperature	Tack free	Repaintable
10 °C	180'	8 h
20 °C	60'	4 h
30 °C	45'	3 h

Minimum application temperature of the substrate: +10 ° C and ambient humidity not higher than 65-70%.

Consumption

Consumption depends on the preparation, roughness and porosity of the substrate. Generally the consumption over a smooth and flat surface is about 100-150 g/m² in two coats. In the case of porous substrates, consumption can be higher.

Packaging and storage

Available in packs of 5, 10 and 20 l.

In original and closed packages, the product remains unchanged for at least 12 months if it is kept in an environment with a temperature between 10 and 30 °C.

Do not expose containers to frost, heat sources and sunlight.

Cleaning of tools and health precautions

Before handling the product, consult the relative safety data sheet.

To clean tools use water.

Acrylic and polyurethane resins can cause irritation: therefore avoid any contact with the skin and in particular with the eyes during use.

Wear gloves, protective suit, and closed goggles or protective visor.

In case of contact with the skin wash with water and neutral soap; in case of contact with eyes or mucous membranes, do not use alcohol, but wash immediately with running water and neutral soap for 10/15 minutes, then consult the doctor.

Do not wash with solvent.

The information contained in this sheet is dictated by RESIMIX's best practical and laboratory experience, which guarantees its products when applied according to the instructions. However, the Customer is responsible for verifying that the product is suitable for the intended use. The manufacturer declines all responsibility for the results of incorrect applications or in any case beyond his control. RESIMIX reserves the right to make changes to the data. For any further clarification, we recommend our customers to contact the Technical Assistance Office