

Epoxol® Deco

**Solvent-free, decorative epoxy system,
for the creation of self-leveling floors with a granite look**

Description

Three-component, solvent-free epoxy system, suitable for the creation of self-leveling decorative floors with a granite look. The system consists of transparent resin (A+B) and decorative filler (component C)



Fields of application

- Decorative floors of hotels, offices, showrooms
- Commercial and residential floors

Properties - Advantages

- Provides a seamless and uniform final surface with a natural look of granite
- High resistance to abrasion and scratching
- Remarkable hardness and durability
- Very good resistance to mechanical stress and chemicals
- Excellent aesthetic result

Packing

Set (A+B+C) of 27kg

Colours



Technical characteristics

Mixing ratio A:B:C (by weight)	62,5:37,5:170
Density A+B (EN ISO 2811-1)	1,08kg/L (±0,05)
Solids content by weight	100%
Solids content by volume	100%
Gloss (60°)	>85
Abrasion resistance (Taber Test, CS 10/1000/1000, ASTM D4060)	71mg
Adhesion strength (EN 13892-8)	≥2,5N/mm ²

Hardness Shore D (ASTM D2240)	72
Impact resistance (EN ISO 6272)	≥4Nm
Scratch hardness (Sclerometer Test - Elcometer 3092)	8N
Resistance to temperatures (dry loading)	-30°C min. / +80°C max.
Consumption: 1,35kg/m² per mm of thickness	

Application conditions

Substrate moisture content	<4%
Relative air humidity (RH)	<70%
Application temperature (ambient - substrate)	+12°C min. / +35°C max.

Curing details

Pot life (+25°C, RH 50%)	40 minutes
Hardening time (+25°C, RH 50%)	10 hours
Dry to recoat - walkability (+25°C, RH 50%)	24 hours
Full hardening	~ 7 days

** Low temperatures and high humidity during application and/or curing prolong the above times, while high temperatures reduce them*

Appropriate primers on concrete substrate

	Primer	Description - Details
Solvent-free	Epoxol® Primer SF	Two-component, solvent-free epoxy primer for flooring applications
	Epoxol® Primer SF-P	Two-component, solvent-free epoxy primer, ideal in cases of substrates with increased porosity
	Neopox® Primer WS	Two-component, solvent-free epoxy primer for wet surfaces (without ponding water or rising moisture)
	Neopox® Primer AY	Two-component, solvent-free anti-osmotic epoxy primer, for floors with rising moisture
Water-based	Acqua Primer	Two-component water-based epoxy primer
Solvent-based	Epoxol® Primer	Two-component solvent-based epoxy primer

Instructions for use

Substrate preparation

The concrete must be min. Grade C20/25, with a tensile strength of ≥1,5MPa, and allowed to cure for at least 28 days, taking all the necessary maintenance measures during its curing period. The cementitious substrate must be properly prepared mechanically (e.g. grinding, shot blasting, milling etc.) to smooth out the irregularities, achieve an open-textured surface and ensure optimum adhesion.

The surface must be dry and protected from rising moisture, stable, clean and free of dust, grease, oil, etc. Loose friable material must be fully removed by brushing or sanding with a suitable machine and a high suction vacuum cleaner. The surface must be as smooth and flat as possible, as well as continuous (ie without voids, cracks etc.) Repairs to the substrate, filling of joints, blowholes/voids and surface leveling must be carried out using appropriate repairing products, such as the pourable epoxy-cement mortar **Epoxol® CM** and the epoxy putty **Epoxol® Putty**, or/and a mixture of **Epoxol® Primer SF-P** and Quartz Sand M-32 (indicative mixing ratio 1:1-2 w/w), after proper priming.

Priming

For the stabilization of the substrate and sealing of pores, as well as for creating the optimum conditions for stronger adhesion and higher coverage of the subsequent epoxy system, it is recommended to apply **Epoxol® Primer** or an alternative appropriate **NEOTEX®** primer (see table), depending on the substrate. In cases of substrates with increased porosity, an additional priming layer may be required.

Depending on the colour and the uniformity of the substrate, at this stage it is recommended to use a coloured epoxy coating (e.g. **Neopox® Special** diluted 10% w/w with **Neotex® 1021**) in a shade close to the chosen color of **Epoxol® Deco** that follows, in order for the substrate to acquire uniformity, so that any risk of local substrate “mirroring” is eliminated, after the application of the self-leveling system.

In order to ensure the adhesion of the self-leveling epoxy system that follows, especially in case it is applied more than 24 hours after the application of the primer, it is recommended to sparsely broadcast Quartz Sand M-32 (0,1-0,3mm, average grain size 0,26mm) on the still fresh layer of the primer, with an estimated sand consumption of 0,3-0,5kg/m². After drying, any loose grains should be removed with a high suction vacuum cleaner.

Application

Once the primer or the epoxy coating is dry to overcoat, the application of **Epoxol® Deco** follows. The mixture is applied by notched trowel in one layer of 1,5-2mm thickness.

Prior to mixing, mechanical stirring of component A for 1 minute is recommended. This is followed by the addition of component B into component A in the predetermined ratio (62.5A : 37,5B w/w) and stirring of the two components for approximately 3-5 minutes with a low speed electric stirrer. The mixture is then left for approximately 1-2 minutes and component C is then gradually added in the predetermined ratio [100(A+B) : 170C w/w], under continuous stirring until the mixture becomes homogeneous.

During the application of the self-leveling coating on the floor, the thorough use of a special spiked roller is essential, in order to release any trapped air and create a smooth coating without bubbles and with an even distribution of the decorative filler in its mass. During this procedure, the use of spiked shoes is also required.

Special notes

- **Epoxol® Deco** should not be applied under wet conditions, or if wet conditions are expected to prevail during the application or the curing period of the product. Increased humidity may have a negative impact on the adhesion, the film properties and/or the final result (e.g. blurry surface, stickiness)
 - The components should not have been stored at very low or very high temperatures, especially before mixing. Mixing and stirring of the mixture should be preferably done in the shade. The stirring of the mixture must be done mechanically and not manually with a rod, etc.
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- Excessive stirring of the material should be avoided, in order to mitigate the risk of air entrapment. After stirring the mixture, it is recommended to apply the material shortly in order to avoid the development of high temperatures and potential hardening inside the can
 - The substrate temperature must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish
 - Due to the nature of the materials, the direct and permanent exposure of the final coating to UV radiation may cause the phenomenon of chalking over time. For that reason, the application on exterior areas is not recommended
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Maintenance instructions

- In case of minor spills and stains, it is recommended to remove them as soon as possible by using a soft cloth along with warm clean water (temperature <+60°C)
- For the maintenance cleaning of the surface from dust and dirt, it is recommended to use a vacuum cleaner or a soft bristle broom. The use of hard brushes or wires to remove the stains should be avoided.
- For cleaning the surface from hardened stains, it is recommended to use a hard foam mop with a solution of water and ammonia (~3% dilution). Then, rinse off with clean warm water (temperature <+60°C) and dry the surface with a soft towel.
- In case of using commercial cleaning products, the use of neutral ones is recommended (pH between 7 and 10). Soaps or all-purpose cleaners containing water-soluble salts or harmful ingredients with high concentration in alkalis or acids should be avoided. Follow the manufacturer's recommendations with respect to the optimum dilution with water. In any case, the first time a commercial cleaning product is used, it is recommended that a trial is made in a small surface area.

Appearance (after the application)	Glossy
Colours	 <p>No 103</p>  <p>No 1305</p>  <p>No 860</p>
	 <p>No 990</p>  <p>No 833</p>  <p>No 940</p> <p><i>Note: The above images are not intended to provide a perfect match to the actual product colours. The colour shades in the images may differ from the actual product due to reproduction limitations</i></p>
Packing	Set (A+B+C) of 27kg in plastic pails
Cleaning of tools – Stains removal	By Neotex® 1021 immediately after application. In case of hardened stains, by mechanical means
Volatile organic compounds (V.O.C.)	V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AjSB: 500g/l (Limit 1.1.2010) - V.O.C. content of the ready-to-use product <500g/l
UFI code	<p><i>Component A:</i> J910-U0MC-G00K-R6H2</p> <p><i>Component B:</i> QD10-C09R-T002-EJ34</p> <p><i>Component C:</i> JG10-V005-300J-2VP6</p>
Storage stability	2 years, stored in its original sealed packing, protected from frost, humidity and exposure to sunlight

The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX® SA. It is offered as a service to designers and contractors to help them find potential solutions. However, as a supplier, NEOTEX® SA does not control the actual use of the product and therefore cannot be held responsible for the results of its use. As a result of continual technical evolution, it is up to our clients to check with our technical department that this present data sheet has not been modified by a more recent edition.

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