

Epoxol[®] Floor Elastic

Two-component elastic multipurpose solvent-free epoxy system

Fields of Application

Epoxol[®] Floor Elastic is a suitable screed that can be applied on cement-based floors which need high mechanical and chemical resistance, e.g. factories, laboratories, warehouses, superstores, parking places, garages, slaughterhouses, refrigerators, larders, hospitals, schools, etc. Thanks to its excellent covering of cracks and imperfections and its elasticity, **Epoxol[®] Floor Elastic** is also recommended for repair and refurbishment of old floors.

Properties/ Advantages

Epoxol[®] Floor Elastic is an innovative two-component epoxy system based on selected resins and hardeners without solvents, **with significant elasticity**, that show great abrasion and chemical resistance (to alkalis, solutions of acids, water, petroleum oils and many solvents).

Compliant with the regulation 2004/42/EC for limitation of V.O.C. in paints and varnishes.

Certificate: No 01750/015/000 of **Greek Chemical State Laboratory** (July 2006), for permanent contact with foodstuff according to European regulations 1935/2004, 1895/2005

Technical Characteristics

Appearance	Gloss
Density (EN ISO 2811.01)	1,45 kg/l (Comp. A), 0,98 kg/l (Comp. B)
Mixing ratio (weight proportion)	100A:80B
Consumption	500-650gr/m ² per layer (depending on substrate)
Substrate Temperature	+12°C to +35°C
Ambient Temperature	+12°C to +35°C
Surface humidity content	<4%
Relative atmospheric humidity	<70%
Total hardening	~ 7 days
Abrasion Resistance	28 mg - Taber Test ASTM D 4060 (CS 10/1000/1000)
Adhesion Strength (EN 13892-8)	≥2,5 N/mm ²
Hardness (Shore D, ASTM 2240)	40 (at +25°C)
Resistance to temperature	From -50°C to +80°C

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Pot Life

Temperature	Time
+12°C	1,5 hour
+25°C	1 hour
+30°C	1 hour

Overcoating

Temperature	Time
+12°C	48 hours
+25°C	48 hours
+30°C	48 hours

Walkability

Temperature	Time
+12°C	48 hours
+25°C	48 hours
+30°C	48 hours

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Quality/Preparation of Substrate

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm². The substrate must be clean, dry (surface humidity content <4%) and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Moreover, imperfections of new surfaces should be smoothed with pulveriser for lower material consumption and achieving better adhesion properties.

Application of Primer

Construction Surfaces:

Epoxol[®] Primer (thinned 10% per weight with **solvent Neotex 1021**) is applied in one layer (**2 coats** required in cases of increased porosity of the substrate) with roller, brush or airless spray. Before applying, mix both components (A&B) thoroughly to the correct predetermined mixing proportion by weight using a low speed electric stirrer for 2-3 minutes. When the substrate contains humidity more than 4% or there is rising moisture the surface should be primed with **Neopox[®] Primer AY**. Otherwise as a primer it can be applied **Epoxol[®] Primer SF** (solvent-free epoxy primer) or if the moisture of the substrate is up to 8%, if there is not rising moisture and the substrate temperature is > +12°C the surface should be primed with water-based primer **Acqua[®] Primer**.

Metallic Surfaces:

The surfaces should be free of rust or any corrosion that may prevent bonding and it should be prepared by brushing, grinding or sand blasting. Afterwards apply one coat of **Neopox[®] Special Primer 1225** diluted 8-10% with solvent **Neotex 1021** to protect against rust. Before applying the primer, mix both components (A&B) thoroughly and apply within 3 hours by brush, roller or airless spray.

Instructions for use

After the drying of the primer, **Epoxol[®] Floor Elastic** is applied with spatula, brush or squeegees. Mix both components A&B thoroughly to the correct predetermined mixing proportion by weight. **Epoxol[®] Floor Elastic** must be thoroughly mixed using a low speed electric stirrer and It is important to stir the mixture thoroughly near the sides and bottom of the container. Mix continuously for 3-5 minutes until a uniform epoxy mortar is formed.

Notes

- Low temperatures and high humidity during application prolong drying time, etc
- Allow at least 4 weeks to pass between casting new concrete structures and painting them with the product.
- For avoiding bubbles on the final surface, use a spiked roller.
- Direct and continuous exposure to UV radiation can cause over time the chalking phenomenon.
- When the epoxy mortar is to be applied in low thickness, cracks or holes need

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to be filled with **Epoxol[®] Putty**.

- After stirring the whole mix, pour the mortar soon enough in order to prevent high temperature and polymerization inside the container.
- The substrate temperature must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish.

Cleaning of Tools

Use solvent **Neotex 1021** immediately after application.

Stain Removal

Use solvent **Neotex 1021** when the stain is still fresh and damp. In case of hardened stains, use mechanical means.

Colors

Beige (RAL 1015), grey (RAL 7047), terracotta (RAL 3009). Tailor-made shades can be produced for a minimum quantity, upon special arrangement.

Packing

Sets 18kg in fixed weight proportion.

Storage Stability

3 years (5-45°C) in sealed tin cans.

Safety Precautions

See Safety Data Sheets.

Auxiliary Materials

Epoxol[®] Primer: Set 5kg, 10kg**Epoxol[®] Primer SF:** Set 10kg**Neopox[®] Primer AY:** Set 5kg**Acqua[®] Primer:** Set 7kg**Neopox[®] Special Primer 1225:** Set 1kg, 5kg**Solvent Neotex 1021:** Tin cans 1kg, 5kg, 20kg**Epoxol[®] Putty:** Set 1kg, 6kg, 20kg