



Epoxol[®] Floor

Two component solvent-free epoxy system for creation of self-levelling floors

	Epoxol[®] Floor is a suitable screed that can be applied on cement-based floors which need high mechanical and chemical resistance, e.g. factories, aboratories, warehouses, superstores, parking places, garages, slaughterhouses, larders, hospitals, schools, etc. Thanks to its excellent covering of cracks and imperfections and quick walkability, Epoxol[®] Floor is also recommended for repair and refurbishment of old floors.
Properties/ Advantages	• Epoxol® Floor is a two-component epoxy system based on selected resins and hardeners without solvents which show great abrasion and yellowing resistance, significant strength 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.
	• It is classified as SR-B2,0-AR0,5-IR4 according to EN13813.
Technical Characteristics	
Appearance	Gloss
Density (EN ISO 2811.01)	1,34 kg/l
Mixing ratio (weight proportion)	100A:35B
Hardening time (tack free) (25°C	:) 10 hours
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
Hardness (Shore D, ASTM 2240	80
Abrasion resistance (ASTM D 4	060) 61 mg (with quartz sand M32 in a proportion of 1:1 by weight) (TABER TEST,. CS 10/1000/1000)
Compressive strength (DIN 534	52) 104 N/mm ²
Flexural strength (DIN 53452)	75 N/mm ²
Impact resistance (EN ISO 6272) IR4
Adhesion strength (EN 13892-8)	≥ 2,5 N/mm ²
Resistance to temperature (dry	loading) from -30°C to +100°C





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Pot Life

Temperature	Time
+12°C	1 hour
+25°C	40 minutes
+30°C	30 minutes

Overcoating

Temperature	Time
+12°C	36 hours
+25°C	24 hours
+30°C	24 hours

Walkability

Temperature	Time
+12°C	36 hours
+25°C	24 hours
+30°C	24 hours





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Quality/Preparation of Substrate	The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm ²) with a minimum pull off strength of 1.5 N/mm ² . 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 smoothened with pulveriser for lower material consumption and achieving better adhesion properties.
Application of Primer	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 .
	In case Epoxol[®] Floor is applied beyond 24 hours after priming, quartz sand M-32 should be spread all over the primed surface (before drying) in order to achieve good adhesion. The loose quartz sand should be removed with vacuum cleaner.
	After the primer has dried, any existing imperfections (cracks, holes) should be filled using Epoxol[®] Floor mixed with quartz sand M-32 in proportions of 1:2- 1:3 by weight, or using Epoxol[®] Putty in proportion from 1A:1B to 2A:1B depending on application conditions.
Instructions for use	Self-levelling Epoxol [®] Floor:
	After primer dries, Epoxol [®] Floor is applied. Mix both components A&B thoroughly to the correct predetermined mixing proportion by weight. Epoxol [®] Floor 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. When parts A and B have been mixed, quartz sand M-32 is gradually added into the mixture under continuous stirring (for 3-5 minutes), in a proportion of 1:0,8-1,2 until a uniform epoxy mortar is formed. The epoxy mortar is then poured on the floor and levelled to the preferred thickness (1,5 up to 3mm) with a toothed spatula. (For greater thickness please communicate with Technical Department of NEOTEX). For avoiding bubbles on final surface, prefer a spiked roller when rolling the self-levelling layer after the use of the notched trowel.
	Slip-resistant final surface Epoxol [®] Floor:
	First, Epoxol[®] Floor is applied in the same way as in the smooth surface case. On the still fresh layer, quartz sand M-32 is spread, depending on the required anti-slipping effect. After hardening, any loose grains should be removed using





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	Floor is applied with roller and without the addition of quartz sand M-32.	
Consumptions	Self levelling System:	
	 Proportion Epoxol[®] Floor – quartz sand M-32 = 1:1 	
	Consumption (per mm): 0,8kg/m ² resin + 0,8kg/m ² quartz sand M-32	
	 Proportion Epoxol[®] Floor – quartz sand M-32 = 1:0,8 	
	Consumption (per mm): 0,9kg/m ² resin + 0,7kg/m ² quartz sand M-32	
	 Proportion Epoxol[®] Floor – quartz sand M-32 = 1:1,2 	
	Consumption (per mm): 0,7kg/m ² resin + 0,9kg/m ² quartz sand M-32:	
	Slip-resistance surface :	
	 Spreading quartz sand M-32 to the fresh self-levelling layer Epoxol[®] Floor with consumption 3-4kg/m², and consumption of Epoxol[®] Floo (finishing sealing layer) = 300-400gr/m² 	
	Paint:	
	Epoxol [®] Floor can be applied by roller as a paint in 2 layers.	
	Consumption: ~ 250-300gr/m²/layer.	
	Slip-resistance paint:	
	 Spreading quartz sand M-32 to the fresh paint Epoxol[®] Floor with consumption 400-500gr/m², and consumption of Epoxol[®] Floor (finishing sealing layer) = 200-300gr/m² 	
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.	
	 Direct and continuous exposure to UV radiation can cause over time the chalking phenomenon. 	
	 After stirring the whole mix (A+B+quartz sand), 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.	
Variations	Epoxol® Floor Winter:	
	Special version of the product for application in highly humid environments and low temperatures (<12°C and >5°C, relative atmospheric humidity <80% surface humidity content <4%).	
	Resistance to temperature (dry loading) from -30°C to +100°C.	
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 o	

NEOTEX® SA .It is offered as a service to designers and contractors in order 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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	nardened stains, use mechanical means.
Colors	White (RAL 9003), Beige (RAL 1015), Grey (RAL 7035, RAL 7040), Terracotta (RAL 3009). Tailor-made shades can be produced for a minimum quantity, upon special arrangement.



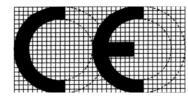
Packing	Sets of 13,5kg in tin cans (components A&B have fixed weight proportion)
Storage Stability	3 years (5-45°C) in sealed tin cans.
Safety Precautions	See Safety Data Sheets.
Auxiliary Materials	Epoxol [®] Primer: Set 5kg, 10kg
	Epoxol [®] Primer SF: Set 10kg
	Neopox [®] Primer AY: Set 5kg
	Acqua [®] Primer: Set 7kg
	Solvent Neotex 1021: Tin cans 1kg, 5kg, 20kg
	Quartz sand M32: Bags 25kg





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EN 13813 SR-B2,0-AR0,5-IR4

Synthetic Resin screed material for use internally in buildings

Reaction to fire	Efl
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance	AR0,5
Bond strength	B2,0
Impact resistance	IR4
Sound insulation	NPD
Sound absorption	NPD
Thermal resistance	NPD
Chemical resistance	NPD