

NEF 703 EPOXFLOOR PLATINUM

SOLVENT-FREE EPOXY FLOOR SYSTEM

SR-B2,0-AR0,5-IR4

ACCORDING
TO
EN 13813

DESCRIPTION

Two-component epoxy system enhanced with select hardeners and resins, without solvents. Suitable for highly stressed surfaces that require great resistance to mechanical strength, chemical agents, friction and yellowing. Fully compatible with Directive 2004/42/EC

on the use of organic solvents in decoration paints and Varnishes. It is classified as SR-B2,0-AR0,5-IR4, according to European Standard EN 13813. Apply at least 4 weeks after the last layer of concrete has been laid. Direct and continuous exposure to ultraviolet radiation causes chalking.

APPLICATION FIELDS

Suitable for highly stressed floors that require great resistance to mechanical strength and chemical agents and can be found in factories, malls, warehouses, garages

and car-shops. Also recommended for repairing old floors and for applications requiring instant walkability and coverage of defects.

SUBSTRATE PREPARATION

The substrate should be rigid and all loose materials, such as dust, oil and grease should have been removed with a metal brush, roller refiner and vacuum cleaner. Proper preparation is also necessary in case of new structures for smoothening surfaces so that you can save material and create the right adhesion. The substrate should be dry, with a maximum moisture of 4%, while proper waterproofing should have been achieved through THRAKON materials for protection against rising damp. The concrete should have a compression strength $\geq 25\text{N/mm}^2$ and a tensile strength $\geq 1.5\text{ N/mm}^2$. Then apply the suitable THRAKON primer depending on the requirements of the substrate. In case surface moisture is $< 4\%$, apply the **NLX 710 PRIM** epoxy primer with

brush, roller or airless sprayer. When moisture is $>4\%$ or there is rising damp, apply **NLX 712 MOIST PRIM**. Finally, when substrate moisture is up to 8% and the temperature of the substrate is at least $+12^\circ\text{C}$, without any rising damp, apply **NLX 714 AQUA PRIM**. In case you apply the epoxy floor after 24 hours, you should spread M-32 quartz sand while the primer is still fresh. Όταν στεγνώσει καθαρίζουμε την περίσσια άμμου με ηλεκτρική σκούπα. When it dries, clean the excess sand with a vacuum cleaner. After priming, fill any cracks and holes on the substrate with a mixture of **NEF 703 EPOXFLOOR PLATINUM** and **QZS 700 EPOX** (M-32) quartz sand in a ratio of 1:4 by weight.

SHADES

Available in white (RAL 9003), light ivory (RAL 1015), grey (RAL 7047) and oxide red (RAL 3009).



APPLICATION

Mix components A and B according to the specified ratio and weights. Use an electric mixer at low speed at the bottom of the container. Let the mixture calm for a couple of minutes and start gradually adding M-32 quartz sand in a ratio of 1:0.7-0.8 to the weight of the mixture. Stir for 3-5 minutes until the mixture becomes homogeneous without lumps. Apply with a serrate spatula and then work the freshly applied layer with a spiky roller in order to create an extremely smooth final surface without any entrapped air. Application thickness

should be 1.5-3.0 mm. If you want the epoxy floor to have antiskid properties, spread M-32 quartz sand to saturation while the layer is still fresh. When the material hardens, remove the excess quartz sand with the help of a vacuum cleaner. Apply the material in order to avoid high temperatures and polymerization of the material in the container. The temperature of the substrate should be 3°C above the dew point so that any risks resulting from condensation and air pockets can be avoided.

APPLICATION RATE

Mixing ratio	Application Rate	Application Rate
NEF 703 EPOXFLOOR PLATINUM / QZS 700 EPOX (M-32) Quartz Sand	NEF 703 EPOXFLOOR PLATINUM (kg/m ² /mm)	QZS 700 EPOX (M-32) Quartz Sand (kg/m ² /mm)
1:0.7-0.8	0.9	0.65

- For antiskid floor layer: Quartz sand 3-4kg/m².

CLEANING OF TOOLS / STAINS

Clean with **EF SOLV** solvent while it is still freshly applied. If possible, use mechanical means.

PACKAGING – STORAGE

Set of 12.7kg. In the original, sealed package, in dry and cool places and at temperatures between +5°C and +35°C, protected against direct sunlight and frost, for 3 years after production date.

PRECAUTIONS

For information about safe use, storage and disposal of the product read the information on the label and in the most recent MSDS of the product, which is available upon request to professionals.

The remains of the paints should not be disposed of together with domestic waste. Ask for advice from the local government with regard to the disposal and removal of waste.

Poisoning Centre Tel. No.: 210 77.93.777

The technical information and guidelines in this brochure related to the application and end-use of THRAKON products are based on the Company's current expertise and experience on the products and are given in good faith provided they are properly stored, used and applied in accordance with the guidelines given by THRAKON. Given that we are unable to directly inspect the conditions that prevail at the worksite as well as the application of the product, the Company shall not provide any guarantee regarding the suitability of its products for any particular purpose and disclaims any legal responsibility that is based on written information in this brochure or on written or oral or otherwise provided recommendations and guidelines. By applying the product on a small surface, the users are advised to test the product's suitability for the intended application and purpose. THRAKON reserves the right to amend the properties of its products without prior notice. All orders are accepted only after acceptance of the above and under the Company's respective Trade Policy terms. This version of the technical data sheet automatically cancels any previous version.

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TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Appearance			Glossy
Density	(kg/l)	EN ISO 2811.01	1.49
Mixture ratio		by weight	100A:27B
Hardening interval	(h)	25°C	10
Substrate temperature	(°C)		+12 to +35
Atmospheric temperature	(°C)		+12 to +35
Substrate humidity	(%)		<4
Relative atmospheric humidity	(%)		<70
Fully hardened after	(days)		~ 7
Hardness		Shore D, ASTM 2240	72
Resistance to friction	(mg)	ASTM D 4060	83
Resistance to impact		EN ISO 6272	IR4
Adhesion strength	(N/mm ²)	EN 13892-8	≥ 2.5
Resistance to temperature fluctuations	(°C)	dry loading	-30 to +100
Workability interval	(min)	+12 °C	60
		+25 °C	40
		+30 °C	30
Recoating interval	(h)	+12 °C	36
		+25 °C	24
		+30 °C	24
Walkability	(h)	+12 °C	36
		+25 °C	24
		+30 °C	24

Note: The measurements were taken in laboratory environment under a temperature of +23°C, Relative Humidity 50 % and without ventilation. They may vary depending on the conditions prevailing at the worksite, such as temperature, humidity, ventilation and absorbability of the substrate.