Superbase

50 NV



Product Description

EPI Superbase 50 NV is a durable and comfortable polyurethane flooring system that contains a high percentage of specially formulated biopolymers and natural fillers. Superbase 50 NV has permanent elastic properties, a high degree of UV-resistance under normal daylight exposure, and is color stable. Superbase has a smooth, seamlessly tight finish and is extremely suitable for use in an environment where beautiful appearance, high walking comfort and exclusive design are important.

Product Features

- Seamless
- Comfortable and ergonomic
- Solvent free and environmentally friendly
- Resistant against intensive foot traffic
- Contact noise-reducing properties
- Easy to clean and to maintain

Application areas

- Living spaces
- Retail & Showrooms
- Hotels & Office spaces
- Lobby's
- Entrance halls
- Restaurants

Technical information

Density	~ 1,35 g/cm^3
Impact resistance	Class I: ≥ 4 Nm
Pull-off strength	>1.5 N/mm^2
Hardness Shore	~ D 50 ± 2
Wear resistance CS_{10}	≤ 40 mg
VOC content, EU-limit cat. A/j	≤ 500 g/l
GWP-total	3,03 kg CO_2 eq.
Giscode	PU 40
Reaction to Fire	Indication C_{fl}-S^1
Solids	100 %
Mixing ratio	comp A : B = 100 : 30
General application conditions	Material-, substrate-, and ambient temperatures between 15°C and 25°C and min. 3°C above dewpoint
Optimal application conditions	Material-, substrate-, and ambient temperatures between 18°C and 22°C
Relative humidity	Maximum 70% RH
Application time	20 - 25 minutes at 20°C
Foot traffic/ overlayment	After approx. 16 hours at 20°C and 65% RH, next layer within 24 hrs
Mechanical loads	After 72 hours at 20°C and 65% RH
Fully loadable	After 7 days at 20°C and 65% RH

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment, values obtained on field applied materials may vary.

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Sustainability

The CO_2 footprint (GWP) of 1 kg EPI Superbase 50 NV has been calculated based on the LCA standard EN15804+A2. The verified EPD is available upon request.

Indoor Air Quality

EPI Superbase systems have been assessed to meet the requirements of the Indoor Air Quality standards as specified below.

Regulation or Protocol	Classification
AFSSET VOC (French A+)	Pass
Belgian VOC	Pass
German AgBB/ABG	Pass
Italian CAM Edilizia	Pass
Indoor Air Comfort	Pass
DGNB SOC 1.2	Pass
BREEAM International	Acceptance Level
BREEAM Norway	Acceptance Level
BREEAM NL	Acceptance Level
BREEAM UK	Acceptance Level

LEEDv4 – BREEAM - DGNB

LEED, BREEAM & DGNB are preeminent programs for the design, construction, maintenance and operations of high performance "Green Buildings". EPI Superbase floor systems conform to the following criteria:

LEEDv4	:	IEQc4.3 Low emitting materials
BREEAM	:	HEA 02 Indoor Air Quality
BREEAM	:	HEA 09 Indoor Air Quality
DGNB	:	SOC 1.2 Indoor Air Quality
DGNB	:	ENV 1.2 Local Environmental Impact
	-	Indicator 20 – Quality level 4
	-	Indicator 24 – Quality level 4

Colors

EPI Superbase 50 NV is available in RAL, other colors are upon request.

Packaging

EPI Superbase is available in the following packaging units;
Superbase 50 NV, set 24,7 kg

- EPI Superbase 50 NV, comp. A : 19.0 kg
- EPI Superbase NV, comp. B : 5.7 kg

Theoretical coverage

EPI Superbase 50 NV
Usage: approx. 1.35 kg/m^2/mm thickness, apply minimum 2.8 kg/m^2.

Example build-up flooring system:

- Primer Aquapox-N : 0,15 - 0,25 kg/m^2
- Primer 400 POX : 0,7 - 1,5 kg/m^2
- Superbase 50 NV : 2,8 - 3,0 kg/m^2
- Hardtop 200 T WA/PU* : 0,08 - 0,1 kg/m^2

* Usage based on 1 coat.

Substrate Preparation

In General, the substrate must fulfil the relevant standards with special reference to flatness, gradients, thickness, load bearing capacity and water permeability. Substrates to be coated have to be firm, dry, clean and free of loose and brittle particles and substances that impact the adhesion such as oils, grease, paint or other contaminations. Concrete substrates must be dry and a require a minimum cohesion strength of 1,5 N/mm^2 and a minimum compressive strength of 25 N/mm^2 at time of installation. Existing joints in the concrete surface must be performed with a joint profile. The dimensions and details of these joints will need to be determined based on the function of the expected movements of the concrete floor. Depending on the substrate a mechanical preparation (milling and/or vacuum blasting) is recommended for a good adhesion.

Residual Moisture tolerance

Mineral substrates must always be provided with a vapor barrier and must not exceed 4% decreasing residual moisture content measured by the Calcium Carbide method. For anhydrite substrates may contain a maximum of 0,5% decreasing residual moisture content before the floor system can be applied.

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Work Safety Precautions

Before using the products, the user must read the associated, current Material Safety Data Sheets (MSDS). The MSDS provides information and instructions for the safe use, handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety related data. Please refer to the Material Safety Data Sheets for detailed safety instructions for use of the use of personal protective equipment during the processing of the materials. The Safety Data Sheet applies to the components A and B. These sheets have been drawn up in accordance with the latest European legislation.

Application of the EPI Superbase 50 NV
General:

- Before installation, always check all relevant documentation and check that all components are present in the required quantities.
- Large temperature differences should be avoided as this can adversely affect the end result.
- The area must be wind and watertight: avoid drafts and penetration of moisture, dust, water, etc..
- Preferably remove doors that have no free space. Protect walls, columns and walls from splashes.
- Retain the floating character of floating screeds.

System options:

Sound reduction:

To reduce contact noise, the EPI Superbase can be installed with a special sound-absorbing underlay, which can provide up to 20 dB of sound-reduction. See the system overview for EPI Superbase Classic AC, Superbase Classic AC^{+} & Superbase Classic AC^{++} for more information.

Crack-bridging properties:

If the overall system needs to be static crack-bridging, please contact the EPI technical service department to discuss the possibilities.

Slip-resistance:

Superbase 50 NV can be installed with a light surface texture, which creates more grip.

Skirting finish (Cove base):

At the wall-floor junction, a sanitary cove base can be formed that is integrated into the floor system. EPI Trowel POX mortar can be used for this detail and formed to the desired height. See the product information sheet for more information.

For specific questions and/or details regarding noise reduction, crack-bridging and slip-resistance, etc. please contact one of our advisers or the EPI technical service department.

Application primer / scratch coat:

Prior to the application of the EPI Superbase 50 NV, the substrate must be primed with a primer / scratch coat. EPI primer 500 POX-NF or EPI primer Aquapox-N (option for absorbent substrate) in combination with EPI primer 400 POX can be used for this purpose. See product data sheet of these products for more information.

Application EPI Superbase Classic

- Always mix whole packs!
- If processing time, project size and mixing equipment allow, double sets may be used.
- Step 1: Thoroughly mix components A and B together for approximately 2 minutes with a suitable mixer to obtain a homogeneous uniform mix.
- Pour the mixture into a clean bucket and mix for another 60 seconds.
- Step 2: Immediately after mixing, distribute the material on the floor. The material can be applied with a notched squeegee or pin-rake or notched hand trowel in the desired thickness.
- Subsequently, the material can be spike-rolled with a clean, sharp spiked roller to promote air-release in order to achieve a uniform finish.
- Clean tools immediately after use.
- Use clean spike shoes if desired and necessary. (attention: do not walk through broadcasted floors)

Application topcoat sealing finish

EPI Superbase 50 NV floor should be finished with a transparent, UV-resistant polyurethane sealer. The products that can be used for the transparent sealer are EPI Hardtop 100 T/M or 200 T/N.

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The floor finish results in a matted appearance and offers extra protection against discoloration.

See the product data sheet of these products for more information.

Transport and storage conditions

Store all components in closed packaging, away from the ground. Temperature between +15°C and 28°C. Dry room, avoid direct sunlight. Protect liquid components against frost (also during transport).

Shelf life

Component A : 12 months from production date.
Component B : 12 months from production date.

Cleaning and maintenance

In order to maintain an optimal skid resistance, regular cleaning is required.

Cleaning tools

Clean all tools and equipment immediately after use with scouring pads and warm, soapy water or mineral cleaners. Cured material requires mechanical removal

Waste

Attention! Too much residual material in the packaging can become hot due to an exothermic reaction and cause smoke nuisance. Therefore never leave more than 100 grams of mixed product in the packaging and place the packaging in a safe and well-ventilated place. If there is more residual material, add a generous amount of sand to inhibit the exothermic reaction.

CE marking

The harmonized European standard EN 13813:2002 is applicable for the use of synthetic resin bonded floor systems for use in buildings and structures. See the Declaration of Performance for more information.

VOC / Directive 2004/42/EC

EU limit value for the product (category A/j - Type SB) in ready-to-use condition: max. 500 g/l (2010) This product contains <500 g/l VOC.

EPI Superbase 50 NV, revision date 24/12/2025
EPI-Synthetic Surface Materials B.V. applies the quality control system in conformity with NEN- ISO 9001 / 14001. This means that the products delivered meet the product and quality specifications of this system. Advice given by us with regard to the technical application, whether orally, in writing, or by means of tests, is given to our best knowledge, however without obligation, also with regard to possible protected rights of third parties. This does not relieve the applicator/ user of the obligation to check the products supplied by us as to their suitability for the envisaged aims. The application, use and wear of the products take place beyond our control. Therefore they are your own responsibility. For all claims our own responsibility will be limited to the value of the goods supplied by us and used by you. It is under- stood that we guarantee the good quality of our products, all this in accordance with the standards referred to in our terms and conditions of sale and supply. All orders are executed under the latest terms and conditions of sale and supply. Users must always consult the latest edition of the product and material safety data sheet before using the relevant product. Copies hereof are made available upon request. EPI-Synthetic Surface Materials B.V.. retains the right to alter product specifications and product properties.