Hardtop

260 C/M WA/PU

Product Description

Hardtop 260 C/M WA/PU is a 2-component, water-based, colored polyurethane coating that can be applied as a topcoat on EPI polyurethane flooring systems. EPI Hardtop 260 C/M WA/PU gives a matt, hard-wearing and non-yellowing finish with an easy to clean surface.

EPI Hardtop 260 C/M WA/PU can be applied as a topcoat on:

- EPI Advanced base / Flooring 60 MP
- EPI Industrial base / Flooring 80 MP
- EPI Comfort base / Flooring 300 SL/N

Product Features

- Offers maximum UV stability
- Easy to install
- Increased chemical resistance
- Solvent free; water-based product
- Permanently elastic

Application areas

EPI Hardtop 260 C/M WA/PU improves the cleanability, increases the resistance to stains, wear and UV light of EPI floor systems. It can be applied to vertical and horizontal surfaces. A few typical areas of application for EPI Hardtop 260 C/M WA/PU include;

- Where a UV resistant, mat appearance is requred
- Where increased wear resistance is required
- Easy to clean surface is requested

Colour

EPI Hardtop 260 C/M WA/PU is standaard available in many RAL colours, other colors on request.

Packaging

EPI Hardtop 260 C/M WA/PU is available in the following packaging unit;
EPI Hardtop 260 C/M WA/PU, set 5 kg:

- EPI Hardtop 260 C/M WA/PU, comp. A : 4,4 kg
- EPI Hardtop 260 C/M WA/PU, comp. B : 0,6 kg

Technical Information

Density	~ 1,1 g/cm^3
Thickness DFT	~ 45 - 80 µm
Appearance	Mat ~ 9 GE
VOC content, EU-limit cat. A/j	≤ 140 g/l
Giscode	PU 40
Solids	ca. 65 % weight.
Wear resistance CS^{10}	≤ 52 mg
Mixing ratio	comp. A : B = 100 : 12
General application conditions	Material-, substrate-, and ambient temperatures between 15°C and 25°C and at least 3°C above dew point.
Optimal installation conditions	Material-, substrate-, and ambient temperatures between 18°C and 22°C
Relative humidity	Maximum 85% RH
Application time	ca. 50 minutes at 20°C and 40-65% RH.
Touch dry / re-coat window	Touch dry after 3-5 hrs at 20°C and 40-65% RH, re-coat window after ca. 5 hrs (with care), next layer within 24 hrs
Foot traffic	After approx. 12 hrs at 20°C and 40-65% RH.
Mechanical loads	After approx. 3x24 hrs 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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Theoretical Coverage

EPI Hardtop 260 C/M WA/PU
Consumption approx. 80 - 100 gr/m^2 in 1 layer or preferably 2 layers of approx. 60 gr/ m^2.

Note.: Light tones or bright colors we recommend at least 2 of 3 layers depending on the color of the floor system!

Substrate Preparation

Before application of EPI Hardtop 260 C/M WA/PU topcoat, the surface must be clean and dry. If the overcoating time window is exceeded, the surface should be mechanically sanded and cleaned prior to application of EPI Hardtop 260 C/M WA/PU to ensure adhesion.

Tools needed to mix and install

The special tools and equipment required to properly process and install EPI Hardtop 260 C/M WA/PU can easily be purchased from a professional paint store.
They include; new/clean 5 liter buckets, electric mixing equipment and associated mixing fins, high-quality microfiber rollers, paint tray, high-quality brushes and/or mini rollers. Proper mixing equipment to be provided by installer.

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 EPI Hardtop 260 C/M WA/PU applies to the components A and B. These sheets have been drawn up in accordance with the latest European legislation.

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Application of EPI Hardtop 260 C/M WA/PU

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.

Application EPI Hardtop 260 C/M WA/PU

- Always mix complete units!
- If the application time, project size and mixing equipment allows, double sets may be used.
- Step 1: Before use pre-mix comp. A! Mix components A and B carefully with each for approx. 2 minutes to an uniform homogeneous material with an appropriate mixer.
- Pour the mixed material in a clean bucket and mix for additional 1 minute to a uniform material.
- Step 2: Apply the material onto the floor immediately after mixing and divide the material equally with a micro-fiber roller.
- Avoid puddles and overlaps
- Apply 1 or 2 layers;

  1 layer: apply 80 - 100 gram/m^2 in 1 layer crosswise and finish-roll in one direction.

  2 layer: apply 1st layer approx. 35 gram/m^2 crosswise and finish-roll in one direction. After approx. 3 – 12 hours apply layer 2 with 50 - 60 gram/m^2 crosswise and finish-roll in one direction. If desired, an anti-slip additive can be added in the 2nd layer.

  (Please contact us for more information!)

System options:

Slip-resistance:
EPI Hardtop 260 C/M WA/PU can be installed with a light surface texture, which creates more grip.

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For specific questions and/or details regarding slip-resistant additives please contact one of our advisors or the EPI technical service department.

Points of attention

- The surface onto which the product is to be applied must always be completely clean, dry and free of grease. In case of the slightest doubt regarding the adhesion of the product to the substrate, always test the surface first and assess the adhesion!
- When overcoating after 12 hours, the first layer should always be mechanically sanded with fine grit.
- Make sure there is good ventilation during curing. If ventilation is used, aim fans to the ceiling.
- Avoid drafts and strong sunlight and protect the surface against dust.
- Deviating from these processing conditions and guidelines as well as exposure of this product (during and after application) to e.g. draughts or air currents can result in gloss differences!
- Switch off underfloor heating and underfloor cooling in advance prior to the application.
- Pre-smooth corners and hard-to-reach areas that cannot be completely covered with the roller with a flat brush and then roll over as far as possible to prevent ironing edges.
- Clean the tools with lukewarm water immediately after use.

Transport and Storage conditions

Store all components in closed packaging, away from the ground. Temperature between +15°C and 25°C. Dry room, avoid direct sunlight. Protect liquid components against frost (also during transport).

Shelf Life

Component A : 6 months from production date.
Component B : 6 months from production date.

Cleaning and Maintenance

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

Cleaning of tools

Clean all tools and equipment immediately after use with scouring pads and warm, soapy water or mineral spirits. Cured material will require mechanical means of 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 applies to this synthetic resin flooring material, please refer to the Declaration of Performance for more information.

VOC / Directive 2004/42/EC

EU limit value for the product (category A/j -Type Wb) in ready-to-use condition: max. 140 g/l (2010) This product contains <140 g/l VOC.

EPI Hardtop 260 C/M WA/PU, revision date 11/07/2023
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 understood 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.