Bodenguard H-200

CE EN 1504-2 CE EN13813 A+

DILUTION
5-10%

CONSUMPTION
0,180 - 0,220 Kg/m²/layer

APPLICATION TOOLS
Brush, roller, or airless gun

MIX
100A : 20B

2-component, water-based epoxy coating

- **Exceptional abrasion resistance**
- **Low odor**
- **Excellent finishing**
- **Chemical Resistance**

DESCRIPTION

Two-component, water-based epoxy coating, specifically designed for indoor mid-stress floors and surfaces exposed to water or chemicals. It is known for its high hardness, low odor, low emission of volatile organic compounds (VOC), and resistance to wear and chemicals, such as alkalis, oil fuels, etc. It is available in many shades and enhances the aesthetic of the space. It is CE certified according to standards **EN 1504-2** & **EN 13813** and is compliant to **EN 1186** for direct food contact.

APPLICATION FIELD

It is used as a protective and decorative coating for cementitious and metallic interior surfaces, suitable for parking spaces, industrial and commercial areas such as warehouses, workshops, laboratories, food industry, industrial refrigerators etc.

A/j (WB) Two-pack reactive performance coatings for specific end use such as floors
- VOC Limit Value: 150 g/L
- Maximum VOC concentration of the ready to use product: 149 g/L

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TECHNICAL DATA		
Binder Type		A comp: Epoxy resin B comp: Mixture of polyamides
Mixing ratio (A+B) w/w		100A : 20B
Density ISO2811 @ 25 °C (A+B)		1,23 g/mL (±0,05)
Solids content w/w ISO3251-03 (A+B)		54,2 % (±2)
Solids content v/v (A+B)		46,0 %(±2)
Viscosity ISO2555 @ 25°C (A+B)		4500 mPas (+/- 300) (sp4/20rpm)
POT life		3,0 – 3,5 h @ 15°C
		2,5 – 3,0 h @ 25°C
		1,5 – 2,0 h @ 35°C
Consumption	2-3 layers for smooth surface	0,180 – 0,200 kg/m²/layer
	2-3 layers for rough surface	0,200 – 0,220 kg/m²/layer
	final layer for slip-resistant surface	~0,350 kg/m²
	2 layers for vertical surface	0,100 – 0,120 kg/m²/layer
Dry film thickness for horizontal surfaces (DFT)		>130 µm
Drying time (Dust-free) @ 20°C		~3 h
Walkability		16 h
Recoating		16-24 h
Curing time		7 days
Gloss level @ 60° ISO2813		>70 GU
Abrasion resistance (CS 10/1000c/1000g) ASTM D4060		<75 mg
Scratch test using a spring-loaded pen ISO22557		>8 N
Cross-cut Test ISO2409		Class 0 (No detachment)
Wet scrub resistance ISO11998		Class 1
Pendulum Hardness ISO1522 (15 days)		120 sec (±15)
Hardness SHORE D ASTM D2240		60 (±5)
Flexibility with conical mandrel ISO6860		ø<3,7 mm
Slip Resistance EN13036-4	Dry	>84
	Wet	<20
	Dry with PES-400AS	>90
	Wet with PES-400AS	38-45
	Dry with Q-500AS	>89
	Wet with Q-500AS	35-42

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IN ACCORDANCE TO EN1504-2 & EN13813				
Adhesion EN1542	≥ 4,0 N/mm²			
Bonding EN13892-8	≥ 4,0 N/mm²			
Permeability to water vapor EN ISO7783	Sd>10 m			
Capillary absorption and permeability to water EN1062-3	w < 0,03 kg/m² · h^{0,5}			
Permeability to CO² EN1062-6	Sd>50 m			
Resistance to severe chemical attack EN13529		20% NaOH	20% H_2SO_4	Oil fuels
	Blistering	0(S0)	0(S0)	0(S0)
	Cracking	0(S0)	0(S0)	0(S0)
	Flacking	0(S0)	2(S4)	0(S0)
Wear resistance BCA EN 13892-4	30µm			
Thermal cycling without de-icing salt impact EN13687-3	Pass after 20 cycles*			
	Bond strength before cycles >4.4 MPa			
	Bond strength after cycles >3.9 MPa			
Impact resistance ISO 6272-1 (500 mm /1000 g (±10))	Pass			
Reaction to fire EN13501-1	E			

*No visual surface changes (cracking, flaking, blistering, stratification, bubbles, other surface defects)

DIRECTIONS FOR USE:

1. **SUBSTRATE – PREPARATION** The substrate to be coated must be clean, stable, solid, and free from standing water, rust, moisture (less than 4%), dust, oils, lime, tar, and any loose materials that could affect adhesion. For any repairs deemed necessary for the proper preparation of the substrate, the appropriate repair materials from **KRAFT Paints** should be used.

Concrete or absorbent surfaces: The quality of the concrete must be of a class equal to or higher than C20/25, and the cement content of the screed must be at least 350 kg/m3, with full curing for at least 28 days beforehand. Proper preparation and smoothing of the surface is essential, using mechanical methods such as sanding, milling, sandblasting, etc., and the ideal removal of dust. The repair of cracks or the filling of holes can be carried out using a mixture of **BODENGUARD SL-550 PRIMER** with **BODENGUARD Q-500AS** quartz sand, after the appropriate priming has been done.

Priming: Once properly prepared, apply one coat of the clear **BODENGUARD H-250 PRIMER,** water-based, after diluting up to 10% by weight with water, or the solvent-based clear primer **BODENGUARD S-150 PRIMER** diluted up to 10% by weight with **NITRO 2000.**
After 24 hours, apply the final topcoat. For highly absorbent surfaces, apply the solvent-free **BODENGUARD SL-550 PRIMER.**
After 24 hours, apply the topcoat.

Metallic or non-absorbent surfaces: Proper preparation is necessary using mechanical methods such as sanding with sandpaper or sandblasting, thorough removal of dust, rust, or loose areas, and degreasing with **KRAFT NITRO 2000** thinner.

Priming: Once properly prepared, apply one or two coats of the anti-corrosive **BODENGUARD AR-120 PRIMER,** solvent-based, after diluting up to 10% by weight with **KRAFT NITRO 2000.**
After 24 hours, apply the topcoat.

2. **MIXING** The components A and B are packaged in containers with a predetermined mixing ratio. Component B is added completely into the container of component A. Mix the two components for about 1-2 minutes manually or with a low-speed drill , ensuring the mixture is homogeneous. Avoid excessive mixing to prevent air entrapment. Then, dilute approximately 5-10% by weight with water.

3. **APPLICATION BODENGUARD H-200** is applied in at least two coats, within 24 hours of the primer and after it has dried. It can be used diluted from 5% to 10% by weight with water and is applied with a roller, brush, or airless spray gun. Each subsequent coat is applied after the previous one has dried and is always within 24 hours.

Anti-slip surfaces: To achieve anti-slip surfaces, before applying the final coat of **BODENGUARD H-200,** add approximately 2% by weight of **BODENGUARD PES-400AS** polyester granules (maximum grain size 400µm) to the mixture and stir for about ½ – 1 minute, until fully homogeneous. Then, apply this final coat to the surface. Alternatively, use B**ODENGUARD Q-500AS** quartz sand (maximum grain size 500µm) by broadcasting it onto the wet penultimate coat of **BODENGUARD H-200** at a consumption rate of approximately 2.5 kg per square meter. Then, after 24 hours and once the coating is completely dry, remove the excess quartz sand that did not adhere to the surface, either manually or with a vacuum cleaner. Finally, apply the final coat of **BODENGUARD H-200.**

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IMPORTANT NOTES:

• The temperature affects the working time of epoxy materials. Ideal application conditions are between +15°C and +25°C. At higher temperatures, the material sets more quickly, while mild preheating is required in winter and cool storage in summer.

• Due to the nature of the material, exposure of the final coating to ultraviolet radiation may, over time, cause chalking.

• It should not be applied under humid conditions as this can negatively affect adhesion, film properties and/or the result.

• The substrate should have a temperature of at least 5°C to minimize the risk of condensation or bubbles on the final surface.

• On existing surfaces with epoxy coatings, uniform, light sanding is required before each new application. In this case, and provided the substrate is stable, **BODENGUARD H-200** thinned 10% by weight with water can replace the primer, and at least two additional coats of paint are required.

• If there is a long waiting period between coats, sanding the surface before repainting is mandatory.

• Anti-slip properties can be achieved using quartz sand with a larger grain size (e.g., **BODENGUARD Q-1200L**), and the number of sealing coats may be increased as needed.

HEALTH, SAFETY & ENVIRONMENTAL INFORMATION

FOR PROFESSIONAL USE ONLY

Carefully read and follow all cautions and warnings on product label. For further information refer to the Safety Data Sheet for this product.

Poison Centre Telephone:

+30 210 7793 777

STORAGE

Store the product at temperatures between 5°C and 35°C away from direct sunlight and rain, for a maximum of 24 months from the date of production. Keep containers tightly closed when not in use.

PACKAGING - SHADES

Available in White/Base and base D tintable with Kraft Inspired Color universal colorants, in SET packaging of 4KG and 12KG.

CE 1871 / 1301	**DRUCKFARBEN HELLAS SA** Megaridos Ave., Kallistiri area, GR-19300 Aspropyrgos, Greece
22 DoP No 04.03 **FloorShield White/Grey** **EN 1504-2:2004** Coating (C) for surface protection of concrete structures according to principles 1(PI), 2 (MC) and 8 (IR)	
Reaction to fire	Efl
Permeability to CO_2	s_D > 50 m
Permeability to Water Vapour	Class I
Capillary Absorption and permeability to water	w < 0.1 kg/m^2 · h$^{0.5}$
Adhesion strength by pull-off test	≥ 1.5 N/mm^2
Dangerous substances	see SDS

CE 1871 / 1301	**DRUCKFARBEN HELLAS SA** Megaridos Ave., Kallistiri area, GR-19300 Aspropyrgos, Greece
22 DoP No 04.02 **FloorShield White/Grey** **EN 13813:2002** Synthetic resin screed material for use internally in buildings **(SR B2,0-AR0,5-IR 4)**	
Reaction to Fire	Class Efl
Release of Corrosive Substances	SR
Water Permeability	NPD
Wear Resistance (BCA)	AR0,5
Bond Strength	B2,0
Impact Resistance	IR 4
Impact Sound Insulation	NPD
Sound Absorption	NPD
Thermal Resistance	NPD
Chemical Resistance	NPD
Release of Dangerous Substances	See SDS

COMPANY CERTIFIED BY
✓ ISO 9001
✓ ISO 140001
✓ ISO 50001
✓ ISO 45001

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