

Bodenguard Pool E-400



DILUTION
5-10%
with NITRO 2000



CONSUMPTION
0,125 - 0,165
Kg/m²/coat



APPLICATION TOOLS
Brush, roller,
or airless gun



MIX
80A : 20B

2-component, solvent based,
high performance epoxy coating for pools

- » Contains UV filters
- » Exceptional resistance to mechanical stress

- » Resistant at temperature variations
- » Resistant to chlorinated and sea water

DESCRIPTION

Two-component, solvent-based epoxy coating enhanced with UV-filters, specifically designed for outdoor or indoor pools and surfaces exposed to water. It is characterized by exceptionally high hardness and resistance to wear, chlorinated and sea water. It is CE labeled according to the standard **EN1504-2**.

APPLICATION FIELD

It is used as a protective and decorative coating for cementitious and metallic outdoor and indoor surfaces, such as swimming pools, water tanks, fountains etc.

A/j (SB) Two-pack reactive performance coatings for specific end use such as floors.

- VOC Limit Value: 500 g/L
- Maximum VOC concentration of the ready to use product: 499 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	80A : 20B	
Density ISO2811 @ 25 °C (A+B)	1,25 g/mL (±0,05)	
Solids content w/w ISO3251-03 (A+B)	71,6 % (±2)	
Solids content v/v (A+B)	62,3 % (±2)	
Viscosity ISO2555 @ 25°C (A+B)	2400 mPas (±300) (sp4/100rpm)	
POT life	2,0 – 2,5 h @ 15°C	
	1,5 – 2,0 h @ 25°C	
	1,0 – 1,5 h @ 35°C	
Consumption	2-3 coats for smooth surface	
	final coat for slip-resistant surface	
	0,125 – 0,165 kg/m ² /coat	
	~0,350 kg/m ²	
Dry film thickness (DFT)	>120 µm	
Drying time (Dust-free) @ 20°C	~4 h	
Walkability	16 h	
Recoating	16-24 h	
Curing time	7 days	
Gloss level @ 60° ISO2813	>60 GU	
Abrasion resistance (CS 10/1000c/1000g) ASTM D4060	<60 mg	
Scratch test using a spring-loaded pen ISO22557	>10 N	
Cross-cut ISO2409	Class 0 (No detachment)	
Wet scrub resistance ISO11998	Class 1	
Pendulum Hardness ISO1522 (15 days)	130 sec (±15)	
Hardness SHORE D ASTM D2240	30 (±5)	
Flexibility with conical mandrel ISO6860	ø<3,7 mm	
Slip Resistance EN13036-4	Dry	>85
	Wet	<18
	Dry with PES-400AS	>90
	Wet with PES-400AS	28-31
	Dry with Q-500AS	>90
	Wet with Q-500AS	30-32

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IN ACCORDANCE TO EN1504-2			
Adhesion EN1542	≥ 4,0 N/mm ²		
Permeability to water vapor EN ISO7783	Sd>4,7 m		
Capillary absorption and permeability to water EN1062-3	w < 0,04 kg/m ² · h ^{0,5}		
Permeability to CO ₂ EN1062-6	Sd>50 m		
Resistance to severe chemical attack EN13529		Chlorine solution	20% NaCl solution (salt water)
	Blistering	0(S0)	0(S0)
	Cracking	0(S0)	0(S0)
	Flacking	0(S0)	0(S0)
Reaction to fire EN13501-1	E		

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 S-150 PRIMER**, solvent-based, after diluting up to 10% by weight with **KRAFT 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 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 **KRAFT NITRO 2000** thinner.

3. APPLICATION BODENGUARD POOL E-400 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 **KRAFT NITRO 2000** thinner and is applied with a roller, brush, or airless spray gun. It is recommended to dilute the first coat by 8-10% and the final coat by 5-6%. 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 POOL E-400**, 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 **BODENGUARD Q-500AS** quartz sand (maximum grain size 500µm) by broadcasting it onto the wet penultimate coat of **BODENGUARD POOL E-400** 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 POOL E-400**.

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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 is recommended to apply the two-component polyurethane protective varnish **ARTERRA PATITI VARNISH PU-S** on the horizontal, side, and sun-exposed surfaces of the pool.
- 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 S-100 thinned 10-15% by weight with **KRAFT NITRO 2000** 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.
- **BODENGUARD POOL E-400** contains solvents, so when applying it in enclosed spaces, adequate ventilation and the use of Personal Protective Equipment (e.g., appropriate face mask, protective goggles, etc.) are required.
- The pool should be filled with water at least 7 days after the final coating, taking weather conditions into account.
- It is advisable to entrust the maintenance of the pool water's balance and chemistry to professionals, to ensure the proper levels of chlorine content, water hardness, etc.

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, in ready-made shades RAL 1013, Light Blue, RAL 6034 (Carribbean Blue), and others upon request, in SET packaging of 5KG and 10KG.

 1301	DRUCKFARBEN HELLAS SA Megaridos Ave., Kallistiri area, GR-19300 Aspropyrgos, Greece
25 DoP No 04.42 Bodenguard POOL E-400 2K 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	E _{fl}
Permeability to CO ₂	s _D > 50 m
Permeability to Water Vapour	Class II
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

COMPANY CERTIFIED BY

- ✓ ISO 9001
- ✓ ISO 140001
- ✓ ISO 50001
- ✓ ISO 45001

04/26 THIS TECHNICAL DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS RELEVANT TO THIS PRODUCT

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DISCLAIMER: The above technical data, information, recommendations and guidance are based on scientific and technical knowledge, laboratory studies and long experience. However, the above information is considered to be as indicative and should be reviewed in any case in relation to each specific application conditions. Consequently, the suitability of each product in any application must be evaluated after referring to the updated Technical Data Sheet and to the website www.kraftpaints.com, as well as after contacting the technical support department, in case of necessity. Our company guarantees the quality of the product itself, whilst in any case the user/applicant is exclusively responsible for any undesirable failures after using the product.

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