

SurfaDur™ F Floor

High solids, self-levelling, **Polyaspartic Flexible Protective Pool Coating**

Product Description

SurfaDur F Floor is an innovative, polyaspartic, monolithic, self-levelling coating suitable for the most demanding floor and deck applications. It is based on a special high-performance modified polyaspartic technology ensuring excellent mechanical strength, high resistance to extreme weather conditions, while at the same time due to its aliphatic nature it shows resistance to UV radiation. **SurfaDur F Floor** is easy to apply and cures quickly (<24 hours) allowing immediate delivery of the project.

The distinctive characteristics of **SurfaDur F Floor**, summarize as follows:

- Self-levelling and easy application
- Extended working time: (45min at 25°C)
- Fast curing (<24h) for time-sensitive delivery of projects
- Long-term UV-stability
- Minimum lifetime expectancy: 15 years @ DFT of 1500µm (59 mils)

Recommended Use

SurfaDur F Floor is highly recommended for heavy-duty traffic deck systems (ramps, car parks, parking areas), pedestrian walkways and industrial floors. It is ideal also for cold stores, laboratories, hospitals, food and beverage plants, kitchens, computer and IT facilities, dairies, warehouses, factories, and hangars.

For enhanced traction applications use **SurfaDur F Floor** with the addition of quartz sand.

Technical Specifications

Type:	Two-component coating formulation based on polyaspartic ester base	Components:	Base A: Polyaspartic Ester Hardener B: Aliphatic Isocyanates
Colour:	White / Grey	Thinner/Cleaner:	None Required NPTA NanoPhos Thinner A
Mixing Ratio (by weight):	2 Base A : 1 Hardener B	Solids (% volumetric):	>95%
Combo Density:	1,40±0,05 kg/L	Volatile organic compounds (VOC) Content:	< 1 g · L ⁻¹
Working Time (Max. Work Pot Life):	45 min @ 25°C *	Minimum Recoating Time:	8h @ 25°C
D		Elongation at break:	128% @ 25°C
Dry Through Time:	12h @ 25°C	Chemical resistance:	Good: Acid and alkaline solutions (5%), common detergents and oils
Full Curing Time:	48h @ 25°C	Temperature Range:	-40 °C to 85 °C
Hardness (Shore D):	44		
Weathering Resistance:	8.000h (UV-B Lamps)		

(*) Increases in temperature and/or humidity will shorten working time, drying time and recoating time.

Surface Preparation

All surfaces should be clean, dry, and free from dust, oil, grease, loose materials, and contamination. Substrate temperature should not exceed 30°C, and substrate humidity content should not exceed 15%, else curing time values may decrease. Remove any existing peeled paints, chalking of epoxy paints, cement residues,

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moss and fungi by grinding the surface. Clean the surface with a stiff broom or a high-performance vacuum cleaner. Fill all the voids and repair all the surface imperfections and cracks using the suitable repairing products of **NanoPhos**.

Use **SurfaPaint Epoxy WB**, as the surface primer, for best adhesion. **SurfaPaint Epoxy WB** can be applied by roller, brush, or spray in one coat at a spreading rate of 10 sqm/L.

Allow 12-24h of curing after the application of **SurfaPaint Epoxy WB** before applying **SurfaDur F Floor**.

Application

Mixing: Always mix Hardener B into Base A. Use a suitable bucket, paddle mixer, and/or drill for thorough mixing. Continue mixing for one minute after Hardener B has been added to Base A. Ensure that the paddle mixer reaches everywhere in the mixing container. If needed, transfer the mixed materials into a new bucket for easier roller application. Application tools: brush, roller, spray.

Roller Application: A short nap, microfiber fabric, or thinner resistant rollers provide extremely fine application. Do not use foam rollers. Start by brush painting perimeter edges and avoid . Apply the mixed product in two to three coats but avoid over rolling.

Then apply in criss-cross strokes. Use 10cm wide fiberglass mesh tape along joints or cracks larger than 1.5mm. It's best to spread the amount before **SurfaDur F Floor** starts to set, so it's best to work in sections.

Broadcasting Application: After the application of **SurfaDur F Floor** and while the material is still wet, broadcast quartz by hand in a "rainfall pattern" into the wet resin until it's fully covered. There should be no resin showing or visible "wet" areas. Once **SurfaDur F Floor** has cured, remove excess quartz by using a vacuum cleaner or broom. A second coat of **SurfaDur F Floor** may be used when a smoother surface texture is desired.

Airless Application:

Airless Machine Specifications	
Material Flow	11 lt/min
Maximum Pressure	270-300 bar
Air Intake Pressure	5-6 bar
Pump Filter	30 mesh
Hose	3/8"
Nozzle	0,027" – 0,031"

It is recommended cleaning the hose every hour.

Working time for **SurfaDur F Floor** is 45 minutes at 25°C. Avoid covering floor expansion joints. After **SurfaDur F Floor** has hardened, apply a "flexible" polyurethane sealant to the expansion joints. Spreading rate: 2 m²/L, per coat.

Storage

Store only in the original container. Store the containers sealed in a cool and well-ventilated place. Keep away from direct sunlight. Keep far away from sources of heat, naked flames and sparks, and other sources of ignition. Keep containers away from any incompatible materials.

Health and Safety

Read the label before use. Safety Data Sheets are available through NanoPhos' website www.NanoPhos.com or upon request by contacting NanoPhos through email: info@NanoPhos.com or by telephone: (+30) 2292069312.

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Available Packaging

- 20L Metal canisters combo (13L metal canister for Base A and 7L metal canister for Hardener B)

- **Notes & Precautions:** Adverse weather conditions during or after the product application may affect the properties of the coating. Storage of closed containers, in controlled dry and enclosed space, away from sources of ignition and temperatures from 5°C to 35°C, for up to 18 months. The Technical Data should be read in conjunction with the Safety Data Sheets. The current edition of this technical data sheet automatically cancels any previous one concerning the same product. For more information, please contact NanoPhos: info@NanoPhos.com
- The technical data sheets and the recommendations for using NanoPhos products are based on our scientific knowledge, laboratory studies, and long-term experience. Therefore, the information provided must be considered indicative and subject to constant review in relation to the circumstances and each practical application. Furthermore, the product's suitability should be examined in each case for each specific use. The end-user bears complete & exclusive responsibility for any side effects that may arise from the incorrect use of the product.

SurfaDur™ is a registered trademark of NanoPhos S.A.

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