



NEOFLOOR PUA 640UV

Aliphatic Polyaspartic Polyurea Floor Coating

DESCRIPTION;

NEOFLOOR PUA 640UV is a high-performance, two-component, solvent-free, aliphatic polyaspartic–polyurea hybrid floor coating system. Its UV-resistant structure prevents yellowing, while its high mechanical strength and fast curing properties make it ideal for both industrial and decorative flooring applications.

AREAS OF APPLICATION;

- Car parks and vehicle ramps
- Industrial floors
- Warehouses and logistics areas
- Terraces and balconies
- Pedestrian walkways and outdoor surfaces

ADVANTAGES;

- UV resistant – no yellowing or color fading
- High abrasion and impact resistance
- Fast curing – quick return to service
- Elastic structure – crack bridging capability
- Low viscosity – easy application
- Solvent-free (low VOC)
- Optional anti-slip surface

TECHNICAL SPECIFICATIONS

Physical Properties;

QUALIFICATION (23 °C, 50 % RH)	VALUE	STANDARD & METHOD
Appearance	Component A: Colored, Liquid Component B: Transparent, Liquid	-
Density (gr/cm ³)	A+B Com.: 1,40 ± 0,05	EN ISO 2811-1
Solid (% wt)	A+B Com.: 100	EN ISO 3251
Viscosity (mPa·s)	2200 ± 500	ASTM D2983



Note: This product is intended for professional users. The information in this publication is based on our professionally acquired knowledge and experience. This information does not relieve users of the obligation to test the suitability of our products for their intended use. Because the application and use of our products are beyond our control, any recommendations made are not warranted. Users must evaluate our products based on their own circumstances and bear sole responsibility. The technical data sheets for all our products are updated regularly. Users are responsible for obtaining the latest version.

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Mechanical Properties:

QUALIFICATION (23°C, 50 % RH, 7 day)	VALUE	STANDARD & METHOD
Impact Resistance	Class I	EN ISO 6772-1
Taber Abrasion Resistance(mg)(CS 10/1000/1000)	<50	ISO 5470-1
Elongation at Break (%)	>130	EN ISO 527 ASTM D 412
Tensile Strength (N/mm2)	>12	EN ISO 527 ASTM D 412
Compressive Strength (N/mm2)	>60	EN ISO 196
Flexural Strength (N/mm2)	>30	EN ISO 196
Adhesion Strength (N/mm2)	>3	EN 1542 ASTM D 4541
Surface Hardness Shore D	>60	EN ISO 868 ASTM D 2240

Technical Specifications After Application and Curing:

QUALIFICATION (23 °C, 50 % RH)	VALUE	STANDARD & METHOD
Mixing Ratio	79:21	-
Pot Life (minutes)	20	23°C 100 gr (A+B)
Touch Dry (hours)	3-4	230C - 50% RH
Full Cure (Days)	7	



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APPLICATION INFORMATION

Surface Information: The ground surface must be dry, clean, solid, and capable of withstanding loads. Concrete surfaces in contact with the soil to be coated must be previously insulated to prevent water and water vapor. Oil, wax, grease, water-repellents, loose, unattached particles, and dust that could weaken surface adhesion should be removed by cleaning with a floor milling machine. New concrete should be at least 28 days old, depending on the season, and concrete surfaces should have a maximum moisture content of 4%. The surface should be primed before application. Strength: Mechanically, it must withstand medium to heavy mechanical stress. Thermally, it must withstand temperatures up to +80°C in humid temperatures (without simultaneous chemical and mechanical stress) and +120°C in dry temperatures.

Environmental Conditions:

- The relative humidity should be at most 80%, and the application temperature (environmental and surface) should be between +10°C and +30°C.
- Outdoor areas should be free of rain 24 hours before, during, and 24 hours after application.
- The ground temperature should be 3°C above the current dew point. (Please request the Ambient Temperature-Ambient Humidity-Dew Point Temperature table from our company.)

Preparation of the Mixture: It is a two-component product and should be prepared in the specified mixing ratio, taking into account the pot life and the quantity to be consumed. To achieve a homogeneous mixture, the product temperature should be at least 15°C. Component A should be quickly mixed with a mechanical mixer, and the hardener (component B) should be added, paying attention to the mixing ratio. Components A and B should be mixed with a mechanical mixer for at least 3 minutes until homogeneous, and then allowed to rest for 3-5 minutes. Care should be taken to consume the prepared mixture within the pot life.

Surface Application: The mixture, once ready for application, is applied with a trowel, controlling the coverage in the paint system or the desired dry film thickness with a wet film comb. The application time for each coat is a minimum of 4 hours (20°C) and a maximum of 12 hours. It is crucial that the second coat be applied within the above-mentioned application time. Full mechanical and chemical resistance is achieved in approximately 7 days.

Material Consumption:

(SAMPLE SYSTEM)

As impregnation primer:

NEOPRIMER EP 100WB.....0,10 – 0,20 Kg/m²

(Depending on the concrete surface, it is recommended to dilute it with 20-30% water for better impregnation)

Primer coat:

NEOPRIMER EP 110SF.....0,25 – 0,50 kg/m²

Alternative Primer coat:

NEOPRIMER PUR 100SC.....0,25 – 0,40 kg/m²

Support Layer:

0,3 - 0,7 mm kuvars kumu 1,50 – 3,00 kg/m²

Scratch Layer:

NEOFLOOR PUA 640UV 0,50 – 0,75 kg/m²

Topcoat:

NEOFLOOR PUA 640UV.....0,80 – 1,20 kg/m²

PACKAGING INFORMATION

A 25 kg kit of NEOFLOOR PUA 640UV consists of 19,7 kg net of NEOFLOOR PUA 640UV component A in a bucket and 5,3 kg net of NEOFLOOR PUA 640UV component B in a gallon.

STORAGE INFORMATION

The material should be stored in a cool, dry place. When stored properly in its unopened original packaging, the shelf life of the material is 1 year for components A and B.

HEALTH/SAFETY INFORMATION

During application, work clothes, protective gloves, goggles, and a mask complying with occupational health and safety regulations must be worn. Due to the irritating effects of the uncured product, components should not come into contact with skin and eyes. In case of contact, wash with plenty of soap and water. If swallowed, seek medical attention immediately. For detailed information, please refer to the Material Safety Data Sheet (MSDS) or contact our technical departments. Keep out of reach of children. Comply with the Material Safety Data Sheet (SDS) prepared in accordance with EU directives regarding the product.



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