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Neodur® Polyurea

Transparent aliphatic polyurea system suitable for stone carpets

Description of the product

Transparent aliphatic polyurea system, ideal for the creation of resin mortars. It offers high mechanical strength and is permanently resistant to UV radiation without yellowing.

Properties

- Excellent adhesion to concrete after applying a suitable epoxy primer
 - High resistance to bending, compression and abrasion
 - High resistance to UV. Non-yellowing, even after many years
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Technical characteristics

Appearance	Transparent
Density	1,1g/cm ³
Dosage (by weight)	1:1
Hardening time (at +25°C)	18 hours
Pot life at +25°C	25 minutes
Full hardening	7 days
Service temperature	-30°C to +80°C
Indicative consumption	9,7kg/m ² /5mm thickness (0,700kg Neodur® Polyurea + 9kg quartz sand NQS grey 0,6-1,2mm)
Substrate humidity	<4%
Application temperature	+10°C to +35°C
Accelerated Weathering Test (ASTM G154)	6700h/Pass without chalking or discoloration
Hardness Shore D (EN ISO 868:2003/ASTM 2240)	60 (Pure resin)

(Low temperatures and high humidity during application prolong drying time, while high temperatures decrease it)

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Instructions for use

Surface preparation: Clean the surface from dust, loose particles, oil and grease with air, mechanical removal or washing with water or solvents. The surface must be dry (moisture level <4%), stable and protected from rising dampness.

For applications on concrete surfaces, it is recommended the use **Neopox® Primer WS** or **Acqua Primer**. If the surface moisture >4% or where there is rising damp use primer **Neopox® Primer AY**. For better adhesion and workability of the resin mortar do broadcast with similar quartz sand immediately after applying the primer.

Application: After stirring components A & B in the appropriate proportion apply the mixture to the surface and spread well with the same trowel which has been previously soaked in **Mineral®Oil**.

To prepare a resin mortar, mix **Neodur® Polyurea** with quartz sand at a ratio of 1:11 to 1:13 by weight, depending on the particle size of the aggregates and the thickness of the mortar to be achieved. For better adhesion, it can optionally be applied as a primer **Neodur® Polyurea** with a consumption of 100-150gr/m² (5-10 minutes) before applying the resin mortar.

On vertical concrete surfaces apply as a primer **Neodur® Polyurea M**, diluted with solvent **Neotex® PU 0413** (10-15% by weigh). After 5-10 minutes, when the surface is tacky, apply the resin mortar on vertical surfaces by pressing it against the substrate.

Special Notes

Neodur® Polyurea should not be applied when the ambient temperature is less than +10°C or more than +35°C.

Cleaning of tools

Use solvent **Neotex® 1021** immediately after the application.

Stain removal

Use solvent **Neotex® 1021** when the stain is still fresh and damp. In case of hardened stains, use mechanical means.

Packing

Sets of 20kg

Storage stability

The product is usable for 1 year when kept unopened in its original container, protected from frost and direct sunlight.



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