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## Neodur<sup>®</sup> Polyurea

### Transparent aliphatic polyurea system suitable for stone carpets

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#### 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.

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#### 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

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

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(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<sup>®</sup> Primer WS** or **Acqua Primer**. If the surface moisture >4% or where there is rising damp use primer **Neopox<sup>®</sup> Primer AY**. For better adhesion and workability of the resin mortar do broadcast with quartz sand M-32 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<sup>®</sup> Oil**.

To prepare a resin mortar, mix **Neodur<sup>®</sup> Polyurea** with quartz sand at a ratio of 1: 5 to 1: 7 by weight, depending on the particle size of the aggregates and the thickness of the mortar to be achieved.

On vertical concrete surfaces apply as a primer **Neodur<sup>®</sup> Polyurea M**, diluted with solvent **Neotex<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 1021** immediately after the application.

### Stain removal

Use solvent **Neotex<sup>®</sup> 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.