

# Neopox<sup>®</sup> Special Primer 1225

**Two-component, anti-corrosive epoxy primer  
for metallic surfaces**



## Description

Two-component, solvent-based, anti-corrosive epoxy primer for the protection of metallic surfaces

## Fields of application

Metallic surfaces in roofs, tanks, pipes, fences, etc.

## Properties - Advantages

- Long-term anti-corrosive protection of metallic surfaces
- Resistant to alkalis and dilute acids, petroleum products, fresh and salt water, as well as various solvents
- Excellent resistance to abrasion and adverse atmospheric conditions, e.g. industrial atmosphere, seaside areas, etc.
- Very strong adhesion on metallic surfaces
- Ideal bridge of adhesion for epoxy and polyurethane topcoats



## Packing

Sets (A+B) of 5kg and 1kg

## Colour

Terracotta

## Certificates – Test reports

- CE certification acc. to EN 1504-7  
*Certificate of Conformity No. 1922-CPR-0386*
- Test report by the external independent quality control laboratory Geoterra (No. 2021-483\_8)
- Complies with the V.O.C. content requirements acc. to the E.U. Directive 2004/42/CE

## Technical characteristics

|                              |                 |
|------------------------------|-----------------|
| Mixing ratio A:B (by weight) | 80:20           |
| Density (EN ISO 2811-1)      | 1,28kg/L (±0,1) |
| Solids content by weight     | ~63%            |
| Solids content by volume     | ~46%            |

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|---|---|
| Corrosion protection (EN 15183) <ul style="list-style-type: none"> <li>• 10 cycles of humidity</li> <li>• 10 cycles in SO<sub>2</sub> saturated atmosphere</li> <li>• 5 days in water-salt solution atmosphere</li> </ul> | Pass<br>No oxidation is observed on the steel bars covered with <b>Neopox® Special Primer 1225</b> in the sections within and outside of the concrete |
| Shear adhesion of coated steel to concrete (EN 15184)   | Pass  |
| Adhesion strength (EN 1542)   | ≥2,5N/mm <sup>2</sup>   |
| Glass transition temperature Tg (EN 12614)  | >+40°C  |
| <b>Consumtion: 140-170gr/m<sup>2</sup> per layer</b>  |   |

| Application conditions                        |                         |
|---|-------------------------|
| Substrate moisture content                    | <4%                     |
| Relative air humidity (RH)                    | <70%                    |
| Application temperature (ambient - substrate) | +12°C min. / +35°C max. |

| Curing details  |          |
|---|----------|
| Pot life (+25°C, RH 50%)  | 1 hour   |
| Drying time (+25°C, RH 50%)   | 2 hours  |
| Dry to recoat - overcoat (+25°C, RH 50%)  | 18 hours |
| Full hardening  | ~ 7 days |
| <i>* Low temperatures and high humidity during application and/or curing prolong the above times, while high temperatures reduce them</i> |          |

## Instructions for use

### Substrate preparation

#### *Metallic surfaces (iron – steel)*

The metallic surfaces must be properly prepared by sandblasting or sanding with a wire brush and should be dry, free of dust, dirt, greasy and oily substances, as well as any poorly adhering coatings. In rusty areas, it is recommended to locally apply the chemical rust converter **Neodur® Metalforce**. New metallic surfaces should be degreased with solvent **Neotex® 1021**.

### Application


**Neopox® Special Primer 1225** is applied in at least one layer, diluted 8-10% with solvent **Neotex® 1021**, by roller, brush or airless spray. Every subsequent layer is applied 12-24 hours after the application of the previous one (depending on the atmospheric conditions).

The two components A & B are mixed in the predetermined ratio (8A : 2B w/w) and, after the addition of the solvent, they are stirred for app. 3-5 minutes with a low-speed electric stirrer, until the mixtures become homogeneous. It is important to stir thoroughly at the bottom of the container, as well as near the sides, so that the hardener (component B) is evenly distributed. The mixture is left for a short time period in the container (~1-2 minutes) and then applied. Prior to mixing, mechanical stirring of component A is recommended.

## Special notes

- **Neopox® Special Primer 1225** should not be applied under wet conditions, or if wet conditions are expected to prevail during the application or the curing period of the product.
- The components should not have been stored at very low or very high temperatures, especially before mixing. Mixing and stirring of the mixture should be preferably done in the shade. The stirring of the mixture must be done mechanically and not manually with a rod, etc.
- Excessive stirring of the material should be avoided, in order to mitigate the risk of air entrapment. After stirring the mixture, it is recommended to apply the material shortly in order to avoid the development of high temperatures and potential hardening inside the can
- The substrate temperature must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish
- Due to the nature of the material, the direct and permanent exposure of the final coating to UV radiation may cause the phenomenon of chalking over time
- In case that an extended period of time has passed between successive layers (>24-36 hours, depending on prevailing atmospheric conditions), it is recommended to lightly sand the surface of the previous layer, in order to avoid possible adhesion problems of the next layer
- In interior applications (not exposed to UV radiation), **Neopox® Special Primer 1225** may as well be applied as a topcoat paint (i.e. without being overcoated)

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| <b>Appearance</b>                              | Terracotta   |
| <b>Packing</b>                                 | Sets (A+B) of 5kg and 1kg  |
| <b>Cleaning of tools –<br/>Stains removal</b>  | By <b>Neotex® 1021</b> immediately after the application. In case of hardened stains, by mechanical means only.  |
| <b>Volatile organic compounds<br/>(V.O.C.)</b> | V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AjSB: 500g/l (Limit 1.1.2010) - V.O.C. content of the ready-to-use product <500g/l |
| <b>UFI code</b>                                | <i>Component A:</i> DFDO-N0AY-900W-RK8F<br><i>Component B:</i> F9G0-C042-E007-KUGK   |
| <b>Storage stability</b>                       | 2 years, if kept in the original sealed packaging, protected from frost, humidity and exposure to solar radiation.   |

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| <br>1922   |                   |
| <b>NEOTEX S.A.</b><br>V.Moira str., P.O. Box 2315<br>GR 19600 Industrial Area Mandra, Athens, Greece<br><br>22                                    |                   |
| 1922-CPR-0386<br><br>DoP No.: 4950-77<br><br><b>EN 1504-7</b><br><br><b>Neopox® Special Primer 1225</b><br><br>Reinforcement corrosion protection |                   |
| Corrosion protection  | Pass              |
| Glass transition temperature  | >+40°C            |
| Shear adhesion of coated steel to concrete  | Pass              |
| Dangerous substances  | Complies with 5.3 |

The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX® SA. It is offered as a service to designers and contractors to help them find potential solutions. However, as a supplier, NEOTEX® SA does not control the actual use of the product and therefore cannot be held responsible for the results of its use. As a result of continual technical evolution, it is up to our clients to check with our technical department that this present data sheet has not been modified by a more recent edition.

**HEADQUARTERS - PLANT**  
V. Moira str., Xiropigado  
**LOGISTICS SALES & CENTER**  
Loutsas str., Voro

P.O. Box 2315, GR 19600  
Industrial Area Mandra  
Athens, Greece  
T. +30 210 5557579

**NORTHERN GREECE BRANCH**  
Ionias str., GR 57009  
Kalochori, Thessaloniki, Greece  
T. +30 2310 467275