

## Neopox<sup>®</sup> W Plus

### Two-component brushable water-based epoxy paint

#### Fields of Application

**Neopox<sup>®</sup> W Plus** is suitable for use on floors and walls of factories, shops, laboratories, stairs, slaughter-houses, garages and places with increased humidity, such as kitchen and bathroom. It is also suitable in general for use in indoor areas, where solvent fumes are undesirable. It maintains its initial whiteness and provides protection from mechanical stress.

#### Properties/ Advantages

**Neopox<sup>®</sup> W Plus** is a new technology environmentally friendly water-based easy to apply paint. It is resistant to water, alkalis, detergents, diluted acids and many solvents. It offers also good abrasion, yellowing & strength resistance and very good adhesion on cement surfaces. It doesn't contain any solvents (0% V.O.C. content) and benzyl alcohol.

Compliant with the regulation 2004/42/EC for limitation of V.O.C. in paints and varnishes.

#### Technical Characteristics

|                                   |  |
|-----------------------------------|--|
| Appearance                        | Satin  |
| Density (EN ISO 2811.01)          | 1,50±0,1kg/l (Comp. A), 1,12±0,1 kg/l(Comp. B) |
| Mixing ratios (weight prop.)      | 100A:25B                                       |
| Consumption                       | 330-400g/m <sup>2</sup> for 2 layers           |
| Gloss (60°)                       | 62GU   |
| Substrate Temperature             | +12°C to +35°C                                 |
| Ambient Temperature               | +12°C to +35°C                                 |
| Surface humidity content          | <4%  |
| Relative atmospheric humidity     | <70%   |
| Total Hardening                   | ~ 7 days                                       |
| Resistance to temperature change  | -30°C to +70°C (Wet loading to +60°C)          |
| Abrasion Resistance (ASTM D 4060) | 78 mg (TABER TEST CS 10/1000/1000)             |
| Adhesion Strength (EN 13892-8)    | ≥ 2,5 N/mm <sup>2</sup>                        |

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### Pot Life

| Temperature | Time       |
|-------------|------------|
| +12°C       | 1 hour     |
| +25°C       | 45 minutes |
| +30°C       | 30 minutes |

### Overcoating

| Temperature | Time        |
|-------------|-------------|
| +12°C       | 18-24 hours |
| +25°C       | 18-24 hours |
| +30°C       | 18-24 hours |

### Walkability

| Temperature | Time     |
|-------------|----------|
| +12°C       | 24 hours |
| +25°C       | 24 hours |
| +30°C       | 24 hours |

### Quality/Preparation of Substrate

The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>. The substrate must be clean, dry (surface humidity content <4%) and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Moreover, imperfections of new surfaces should be smoothed with pulveriser for lower material consumption and achieving better adhesion properties.

### Application of Primer

if the moisture of the substrate is up to 8%, if there is not rising moisture and the substrate temperature is > +12°C the surface

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should be primed with water-based primer **Acqua® Primer**.

### Instructions for use

After the drying of the primer, **Neopox® W Plus** is applied with roller or brush. Mix both components A&B thoroughly to the correct predetermined mixing proportion by weight. **Neopox® W Plus** must be thoroughly mixed using a low speed electric stirrer and it is important to stir the mixture thoroughly near the sides and bottom of the container. Mix continuously for 3-5 minutes until a uniform epoxy mortar is formed. **Neopox® W Plus** is diluted 10-15% with water.

### Notes

- Low temperatures and high humidity during application prolong drying time, etc.
- Due to its microporous structure **Neopox® W Plus** shows high water vapour permeability and it could be applied on damp surfaces (damp concrete etc).
- Direct and continuous exposure to UV radiation can cause over time the chalking phenomenon.
- The substrate temperature must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish.
- Surfaces that have already been painted with epoxy paints should be scrubbed lightly before overcoating with the product to ensure good adhesion between the two paint layers.
- Overcoating a freshly painted surface must take place within 2 days otherwise it is suggested to scrub lightly the freshly painted layer to avoid possible adhesion problems.

### Cleaning of Tools

Use plenty of water immediately after application.

### Stain Removal

Use water when the stain is still fresh and damp. In case of hardened stains, use mechanical means.

### Colors

White (RAL 9003), grey (RAL 7035). Tailor-made shades can be produced for a minimum quantity, upon special arrangement.

### Packing

Sets of 1,25kg, 5kg and 12,5kg in fixed weight proportion.

### Storage Stability

3 years (5-45°C) in sealed containers.

### Safety Precautions

See Safety Data Sheets.

### Auxiliary Materials

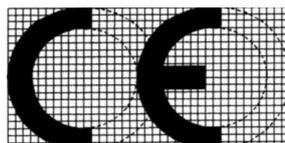
**Acqua® Primer**

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| Chemical Resistance                   |                |                 |                  |
|---------------------------------------|----------------|-----------------|------------------|
|                                       | 1 Hour (+20°C) | 5 Hours (+20°C) | 24 Hours (+20°C) |
| Phosphoric Acid 10%                   | C              | C               | C                |
| Sulphuric acid (10%)                  | C              | C               | C                |
| Hydrochloric Acid (10%)               | B              | B               | B                |
| Lactic Acid (10%)                     | C              | C               | C                |
| Nitric Acid (10%)                     | C              | D               | D                |
| Sodium hydroxide - caustic soda (10%) | D              | D               | D                |
| Formaldehyde (10%)                    | A              | A               | A                |
| Ammonia (10%)                         | A              | A               | A                |
| Chlorine (5%)                         | B              | C               | D                |
| Diesel                                | A              | A               | A                |
| Gasoline                              | A              | A               | A                |
| Xylene                                | A              | A               | A                |
| M.E.K                                 | B              | B               | B                |
| Alcohol 95°                           | A              | A               | A                |
| Saltwater 15%                         | A              | A               | A                |
| Engine oil                            | A              | A               | A                |
| Red wine                              | A              | A               | A                |
| Sea water                             | A              | A               | A                |

- (A) EXCELLENT RESISTANCE
- (B) GOOD RESISTANCE (LIGHT DISCOLORATION)
- (C) POOR RESISTANCE (INTENSE DISCOLORATION)
- (D) NO RESISTANCE

## Neopox® W Plus



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Dop No /4950-52  
EN 1504-2  
Neopox® W Plus  
Surface Protection System for Concrete  
Coating

|                                 |  |
|---------------------------------|--|
| Water Vapour Permeability       | Class II                                 |
| Adhesion Strength               | ≥1.5 N/mm <sup>2</sup>                   |
| Capillary Absorption            | W<0.1 Kg/m <sup>2</sup> h <sup>0.5</sup> |
| Permeability to CO <sub>2</sub> | S <sub>D</sub> >50m                      |
| Reaction to Fire                | Euroclass F                              |
| Dangerous Substances            | Comply with 5.3                          |

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