

# NEXA HYBRID 2K

Water-based, aliphatic, two-component polyurethane hybrid membrane for waterproofing and protection

## Description:

NEXA HYBRID 2K is a two-component water-based polyurethane hybrid product. It is easy to apply on both horizontal and vertical surfaces, forming a hydrophobic, elastic, seamless membrane. It can be applied with a roller, brush, or airless sprayer in one or two coats, depending on the final use.

## Approved Uses

Waterproofing and protection of:

- Polyurethane foam
- Inclined roofs
- Lightweight metal or fiber cement roofs
- Exterior walls

## Approved Substrates

Concrete, fiber cement, cement tiles, wood, oxidized metal, galvanized steel.

For special substrate conditions or specific requirements, consult the technical department.

## Advantages

- Water-based product.
- Easy to apply and repair.
- Thixotropic, allowing application on vertical surfaces.
- Continuous, elastic, seamless membrane.
- Breathable, preventing water accumulation beneath the membrane.
- Excellent resistance to environmental conditions and UV exposure.
- The white color acts as a solar reflector, reducing the building's interior temperature.

## Limitations

- Before application, verify substrate and environmental conditions.
- Do not apply under high water vapor pressure.
- Ensure proper ventilation during application and for 24 hours afterward in enclosed spaces.
- Avoid forming puddles of the product.
- For chemical applications, consult the technical department.
- Incorrect treatment of cracks and specific points may reduce the product's lifespan.
- Do not apply in humid or low-temperature environments.

## Application

- The substrate must be clean, free of grease and dust, leveled, and dry.
- Before applying, confirm that temperature and humidity requirements are met (refer to technical data).
- Monitor the dew point to prevent condensation and stains on the membrane.
- Substrate compression resistance: 15 MPa (2175 psi).
- Concrete tensile strength: 1 MPa (145 psi).
- In case of doubt, perform a test before application.
- Mix both components with a low-speed electric mixer (300-400 rpm) to prevent air entrapment
- Stir Component A, then add Component B and mix until a homogeneous blend is achieved.
- Pot life: Approximately 45 minutes at +68 °F (+20 °C).
- Dilutable with water up to 5-10%.
- Application tools: roller, brush, or airless sprayer.
- Recoating can be done once previous layers are dry, approximately 2-4 hours later.
- Drying Times:
  - Touch dry: 2-4 hours
  - Pedestrian traffic: 24 hours
  - Full cure: 7 days
- To maintain the pavement's appearance, remove spills immediately and clean regularly using rotary brushes, high-pressure cleaners, vacuums, detergents, and appropriate waxes.

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## Consumption

- Waterproofing: 0.31-0.41 lb/ft<sup>2</sup> (1.5-2 kg/m<sup>2</sup>), always reinforced with fabric between coats.
- Protection of metal sheets and polyurethane foam: 0.31 lb/ft<sup>2</sup> (1.5 kg/m<sup>2</sup>), reinforcing only specific points.
- Protective paint: 0.16-0.25 lb/ft<sup>2</sup> (0.8-1.2 kg/m<sup>2</sup>) without reinforcement.

## Cleaning

- Clean tools immediately after use with water.
- Hardened material can only be removed mechanically.

## Presentation and Colors

- Batch Size: 25 kg (55.12 lb):
  - Component A: 250 g (0.55 lb)
  - Component B: 24.75 kg (54.57 lb)

## Container Stability

12 months in a dry place between (5°C and 25°C).

## Transportation, Preventive measures and Storage

Refer to the safety data sheet.

*The information provided serves as a recommendation based on laboratory tests and our current knowledge. Different conditions on construction sites may result in variations from the given information; therefore, our warranty is limited to the supplied product. For any questions, please contact our technical department.*

## Technical Data of the Liquid Product

| CONCEPTS                    | RESULTS  |
|-----------------------------|--|
| Physical Appearance         | Liquid   |
| Mixing Ratio                | Component A: 62.5%, Component B: 37.5%           |
| Chemical Base               | Modified polyurethane                            |
| Density                     | 1.3 g/cm <sup>3</sup> (81.2 lb/ft <sup>3</sup> ) |
| Viscosity                   | 10,000-15,000 cP                                 |
| Pot Life (77 °F / 25 °C)    | 45 minutes                                       |
| Recoat Time (77 °F / 25 °C) | 2-4 hours  |
| Touch Dry Time              | 2-4 hours  |
| Full Cure Time              | 7 days   |
| VOC Content                 | 0 g/l  |
| Solids Content              | 100%   |

## Technical Data of the Membrane

| CONCEPTS                 | RESULTS   |
|--------------------------|---|
| Substrate Temperature    | +41 °F to +95 °F<br>(+5 °C to +35 °C)                 |
| Relative Humidity        | <85%  |
| Substrate Moisture       | <10%  |
| Tensile Strength         | 6.0 N/mm <sup>2</sup> (870 psi)                       |
| Elasticity               | >300%   |
| Shore Hardness (A)       | 90  |
| Water Vapor Transmission | 0.026 oz/ft <sup>2</sup> -h (0.8 g/m <sup>2</sup> -h) |
| Chemical Resistance      | Consult for specific products                         |