

# MAXCIS 371-UV

## One Component, Polyurethane Based, UV Resistant Waterproofing Membrane

### DEFINITION:

- It is containing solvent, UV resistant, elastic waterproofing material.
- It can be applied by spraying machine or brush-roller.

### USAGE AREAS:

- Balconies and terraces
- Applications on ceramics
- Under-concrete waterproofing of terrace and balcony
- Under-ceramic waterproofing of kitchen, bathroom, toilet
- Green roof, under landscaping and in pots
- On thermal insulation materials
- Foundations



### FEATURES OF COMPONENT:

| Test Name          | Unit              | Value                     |
|--------------------|-------------------|---------------------------|
| Chemical Structure | -                 | Poliurethane with solvent |
| Density (23°C)     | g/cm <sup>3</sup> | 1,35 ± 0,03               |
| Viscosity (23°C)   | -                 | 5000-8000                 |
| Solid Content      | %                 | 84 (by weight)            |

### REACTION PARAMETERS:

| Test Name                   | Unit | Value |
|-----------------------------|------|-------|
| Tack Free Time              | hour | ~ 3   |
| Waiting Time Between Layers | hour | 12-18 |

*\* The tests were carried out under laboratory conditions at 20°C. Values may vary under different temperature and humidity conditions.*

### APPLICATION CONDITIONS:

For primer and membrane application;

- The surface must be solid and of sufficient strength.
- You should wait at least 28 days before applying on new concrete.
- The surface temperature must be at least 3 °C higher than the dew point.
- Recommended air and application surface temperature is between 5°C and 35°C.
- Relative humidity should be lower than 85% during application.
- Application should not be made in windy weather.

#### **SURFACE PREPARATION:**

- The application surface must be clean and dry. There should be no rust, dust, oil and water.
- Weak layer and mortar residues on the concrete surface should be cleaned by surface grinding method.
- Concrete repairs should be made with suitable epoxy or cement based materials.
- Dilatation and chamfers must be prepared with suitable materials.
- Priming is done with an epoxy or polyurethane based primer suitable for the structure of the surface.

#### **APPLICATION:**

- The product is mixed with a low speed mixer until a homogeneous mixture is obtained.
- The product is applied to the surface with a suitable spraying machine or brush-roller.
- The application is applied in 3 layers, one layer every day.
- The color of the applied product changes under direct sunlight. Aliphatic topcoat should be applied to prevent color change.

#### **FINISHED PRODUCT FEATURES:**

| Test Name           | Unit              | Standard      | Value                   |
|---------------------|-------------------|---------------|-------------------------|
| Tensile Strength    | Mpa               | ASTM D 638    | ≥ 3                     |
| Elongation          | %                 | ASTM D 638    | ≥ 450                   |
| Hardness (Shore A)  | -                 | ASTM D 2240   | 55-65                   |
| Abrasion Resistance | mg                | EN ISO 5470-1 | < 450 (H22, 1000 cycle) |
| Adhesion Strength   | N/mm <sup>2</sup> | EN 1542       | 2                       |

#### **CONSUMPTION:**

- Consumption for 3 layers of application is 1.80-2.00 kg/m<sup>2</sup>.

#### **PACKAGING:**

- 20 kg/metal bucket

#### **SHELF LIFE AND STORAGE:**

The MAXCIS 371-UV is sensitive to humidity and temperature. Therefore, they should be stored in original, unopened and undamaged packages, in dry environments away from direct sunlight.

|                     | Unit  | Value |
|---------------------|-------|-------|
| Shelf Life          | month | 9     |
| Storage Temperature | °C    | 15-25 |

#### **WARNING:**

- Before using the product, read the MSDS form carefully and follow the written instructions.
- Personal protective equipment and should be used during application.
- There must be sufficient air circulation in the application area.
- Give empty buckets to organizations authorized to collect hazardous waste.