

# MAXCIS 242-S

## Two Component, Epoxy Based Primer

### DEFINITION:

- It is solvent-free, epoxy based primer.
- It has low viscosity and can be applied by spraying machine or brush-roller.
- It adheres perfectly to concrete surfaces.

### USAGE AREAS:

- In priming the surface before epoxy, polyurea and polyurethane coatings
- It can be used in concrete repairs by adding silica sand



### COMPONENTS:

- A Component: Epoxy Resin
- B Component: Hardener

### FEATURES OF COMPONENTS:

| Test Name                 | Unit              | A Component     | B Component |
|---------------------------|-------------------|-----------------|-------------|
| Chemical Structure        | -                 | Epoxy Resin     | Hardener    |
| Density of Mixture (20°C) | g/cm <sup>3</sup> | 1,05 ± 0,05     |             |
| Solid Content of Mixture  | %                 | 100 (by weight) |             |

### MIXING RATIO OF COMPONENTS:

|             | By Weight |
|-------------|-----------|
| A Component | 2 units   |
| B Component | 1 unit    |

### REACTION PARAMETERS:

| Test Name        | Unit   | Value |
|------------------|--------|-------|
| Full Curing Time | hour   | 12-16 |
| Pot Life         | minute | 40    |

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

### APPLICATION CONDITIONS:

- The surface must be solid and of sufficient strength.
- 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 humidity should be at most 4%.

#### **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 appropriate materials.

#### **APPLICATION:**

- After Component A is mixed with a low speed mixer, component B is added at the specified rate and mixing continues until a homogeneous mixture is obtained.
- The mixture is applied to the surface with a suitable spraying machine or brush-roller.
- If necessary, a rough surface can be obtained by sprinkling silica sand on the applied primer before it dries.
- After the primer is cured, the excess silica sand sprinkled should be cleaned.

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

| Test Name                     | Unit | Value                           |
|-------------------------------|------|---------------------------------|
| Hardness (Shore D)            |      | ~ 90                            |
| Adhesion Strength to Concrete | Mpa  | 2,0 ± 0,3 (rupture of concrete) |

#### **CONSUMPTION:**

- Consumption is 0.30-0.50 kg/m<sup>2</sup> depending on the structure of the concrete surface.

#### **PACKAGING:**

- Component A 10 kg/pail, Component B 5 kg/pail. Total 15 kg/set

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

The components of MAXCIS 242-S are sensitive to humidity and temperature. Therefore, they should be stored in original, unopened and undamaged packages, in dry environments away from direct sunlight.

|                     | Unit  | A Component | B Component |
|---------------------|-------|-------------|-------------|
| Shelf Life          | month | 12          | 12          |
| Storage Temperature | °C    | 15-25       | 15-25       |

#### **WARNING:**

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