

# MAXCIS 472-SL

## ***Two Component, Polyurethane Based, Self Leveling, Coating Material***

### **DEFINITION:**

- It is a solvent-free, self-leveling hard-elastic coating material.
- It adheres perfectly to concrete surfaces.
- It has high mechanical strength and abrasion resistance.
- It is easy to clean.



### **USAGE AREAS:**

- Factories, warehouses and hospitals
- Schools, shopping malls and hotels
- Market, and offices
- Auto galleries and showrooms
- Restaurants and shops

### **COMPONENTS:**

- Component A: Polyurethane Resin
- Component B: Hardener

### **FEATURES OF COMPONENTS:**

Test Name	Unit	A Component	B Component
Chemical Structure	-	Polyurethane Resin	Hardener
Density of Mixture (23°C)	g/cm <sup>3</sup>		1,45 ± 0,05
Solid Content of Mixture	%		100 (by weight)

### **MIXING RATIO OF COMPONENTS:**

	By Weight
A Component	5 units
B Component	1 unit

### **REACTION PARAMETERS:**

Test Name	Unit	Value
Full Curing Time	hour	12-16
Pot Life	minute	20-25

\* The tests were carried out under laboratory conditions at 23°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.

**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.
- Priming is done with an epoxy-based primer suitable for the structure of the surface. If necessary, silica sand can be sprinkled on the primer.

**UYGULAMA:**

- 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.
- If necessary, silica sand can be added into the mixture in a ratio not exceeding 1:1 by weight and mixing is continued for a while to obtain a homogeneous mixture.
- After resting the prepared mixture for 1-2 minutes, it is poured onto the ground and spread on the surface with a notched trowel to obtain equal thickness.
- The surface is combed with a hedgehog roller to remove air bubbles in the mixture.
- Spiked shoes are preferred to avoid leaving footprints during application.

**FINISHED PRODUCT FEATURES:**

Test Name	Unit	Value
Compressive Strength	N/mm <sup>2</sup>	45-50
Adhesion Strength to Concrete	Mpa	>4 (rupture of concrete)
Hardness (Shore D)		65-70

**CONSUMPTION:**

- Consumption for 1 mm thickness is approximately 1,40-1,50 kg/m<sup>2</sup>.

**PACKAGING:**

- Component A 20 kg/pail, Component B 4 kg/pail. Total 24 kg/set

**SHELF LIFE AND STORAGE:**

The components of MAXCIS 472-SL 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.