

# MAXCIS 362-TC

## ***Pure Polyurea Based, Aliphatic, Topcoat Waterproofing and Coating Material***

### **DEFINITION:**

- It is a two component, solvent free, UV resistant polyurea system.
- It provides excellent mechanical, chemical and corrosion resistance on the applied surface.

### **USAGE AREAS:**

Exposed to direct sunlight,

- Roofs, balconies and terraces
- Ponds and pools
- On thermal insulation materials
- Open car parks and industrial floors
- Vehicle body coverings
- Ship plating and marine facilities



### **COMPONENTS:**

- A Components: MDI Prepolymer - MAXCIS ISO-15
- B Components: Amine Blend - MAXCIS 362-TC

### **FEATURES OF COMPONENTS:**

Test Name	Unit	A Component - MAXCIS ISO-15	B Component - MAXCIS 362-TC
Chemical Structure	-	MDI Prepolymer	Amine Blend
Density (25°C)	g/cm <sup>3</sup>	1,11 ± 0,03	1,02 ± 0,02
Viscosity (25°C)	mPa.s	700 - 800	300-600
Solid Content	%	100	100

### **APPLICATION CONDITIONS:**

For primer and polyurea 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.

**MIXING RATIO OF COMPONENTS:**

	By Weight	By Volume
<b>A Component - MAXCIS ISO-15</b>	112 units	100 units
<b>B Component- MAXCIS 362-AR</b>	100 units	100 units

**REACTION PARAMETERS:**

Test Name	Unit	Value
<b>Gel Time</b>	sec.	5-10
<b>Tack Free Time</b>	sec.	15-30

**APPLICATION:**

- Before application, Component B should be mixed with a low speed mixer for 30 minutes.
- In order for the machine to mix at the correct ratio (100/100 by volume), the gun and machine must be cleaned and maintained before application.
- Machine and hose temperature is adjusted between 65°C and 75°C depending on the surface and air temperature.
- Machine pressure is adjusted between 140-180 bar.
- Application is made perpendicular to the surface and generally in a single layer.
- If necessary, it can be applied as a topcoat over the first coat of an aromatic polyurea.

**FINISHED PRODUCT FEATURES:**

Test Name	Unit	Standard	Value
<b>Tensile Strength</b>	Mpa	ASTM D 638	≥ 16
<b>Elongation</b>	%	ASTM D 638	≥ 400
<b>Shore D</b>	-	ASTM D 2240	40-45
<b>Tear Resistance</b>	N/mm	ASTM D 624	≥ 50
<b>Abrasion Resistance</b>	mg	EN ISO 5470-1	< 100 (H22, 1000 cycle)
<b>Impact Resistance</b>	-	EN ISO 6272-1	Class III
<b>Adhesion Strength</b>	N/mm <sup>2</sup>	ASTM D 4541	Concrete: ≥ 3 Metal: ≥ 6

**CONSUMPTION:**

- Consumption for 1 mm thickness is 1.10 kg/m<sup>2</sup>.

**PACKAGING:**

- Component A 225 kg/barrel, Component B 200 kg/barrel. Total 425 kg/set

**SHELF LIFE AND STORAGE:**

MAXCIS ISO-15 and MAXCIS 362-TC 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 - MAXCIS ISO-15	B Component - MAXCIS 362-TC
<b>Shelf Life</b>	month	9	9
<b>Storage Temperature</b>	°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.