

# MAXCIS 362-X

## ***Expandable, Pure Polyurea Based, Waterproofing and Coating Material***

### **DEFINITION:**

- It is a two component, solvent free, UV resistant, expandable polyurea system.
- It acts as a waterproofing and coating on the applied surface without requiring surface preparation and priming.
- It perfectly seals holes, gaps and joints.

### **USAGE AREAS:**

- General waterproofing applications
- Metal and sandwich panel roofs
- Water tanks, water pipes, ponds and pools
- Roads, bridges and tunnels
- On thermal insulation materials
- Foundations and retaining walls



### **COMPONENTS:**

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

### **FEATURES OF COMPONENTS:**

Test Name	Unit	A Component - MAXCIS ISO-15	B Component - MAXCIS 362-X
Chemical Structure	-	MDI Prepolymer	Amine Blend
Density (25°C)	g/cm <sup>3</sup>	1,10 ± 0,05	1,02 ± 0,05
Viscosity (25°C)	mPa.s	800-850	400-600
Solid Content	%	100	100

### **APPLICATION CONDITIONS:**

- 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.

**MIXING RATIO OF COMPONENTS:**

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

**REACTION PARAMETERS:**

<b>Test Name</b>	<b>Unit</b>	<b>Value</b>
<b>Gel Time</b>	sec.	7-9
<b>Tack Free Time</b>	sec.	20-25

**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 60°C and 65°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.
- The color of the applied product changes under direct sunlight. Aliphatic topcoat should be applied to prevent color change.

**FINISHED PRODUCT FEATURES:**

<b>Test Name</b>	<b>Unit</b>	<b>Standard</b>	<b>Value</b>
<b>Tensile Strength</b>	Mpa	ASTM D 638	≥2,5
<b>Elongation</b>	%	ASTM D 638	≥200
<b>Shore A</b>	-	ASTM D 2240	40-45
<b>Thermal Conductivity</b>	λ	EN 12667	0,050
<b>Adhesion Strength</b>	N/mm <sup>2</sup>	ASTM D 4541	Concrete: ≥ 2 Metal: ≥ 6

**CONSUMPTION:**

- Consumption for 4,00-5,00 mm thickness is approximately 1,00 kg/m<sup>2</sup>.

**PACKAGING:**

- Component A 220 kg/barrel, Component B 200 kg/barrel. Total 420 kg/set

**SHELF LIFE AND STORAGE:**

MAXCIS ISO-15 and MAXCIS 362-X 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-X
<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.