MAXCIS 362-AR

Pure Polyurea Based, Increased Abrasion Resistance, Waterproofing and Coating Material

DEFINITION:

- It is a two-component, solvent-free, UV-resistant polyurea system.
- Specially formulated for surfaces requiring high abrasion resistance.

USAGE AREAS:

- Parking lots, factories, hospitals and other industrial floors
- Refinery, petrochemical and energy facilities
- Vehicle body coverings
- Ship plating and marine facilities

COMPONENTS:

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

FEATURES OF COMPONENTS:

Test Name	Unit	A Component - MAXCIS ISO-15	B Component - MAXCIS 362-AR
Chemical Structure	-	MDI Prepolymer	Amine Blend
Density (25°C)	g/cm^3	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**
A Component - MAXCIS ISO-15	112 units	100 units
B Component- MAXCIS 362-AR	100 units	100 units

REACTION PARAMETERS:

Test Name	**Unit**	**Value**
Gel Time	sec.	5-10
Tack Free Time	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.
- 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	≥ 20
Elongation	%	ASTM D 638	≥ 200
Shore D	-	ASTM D 2240	40-45
Tear Resistance	N/mm	ASTM D 624	≥ 50
Abrasion Resistance	mg	EN ISO 5470-1	< 25 (H22, 1000 cycle)
Impact Resistance	-	EN ISO 6272-1	Class III
Adhesion Strength	N/mm^2	ASTM D 4541	Concrete: ≥ 2,5 Metal: ≥ 6

CONSUMPTION:

- Consumption for 1 mm thickness is 1.10 kg/m2.

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-AR 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-AR
Shelf Life	month	9	9
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.