

Two component polyurethane/polyurea hybrid waterproofing membrane, highly elastic, for hand applications

DESCRIPTION

OASLASTIC 870 is a hand applied, solvent free, two component, self-leveling, polyurethane – polyurea hybrid based, elastomeric coating. This system is slightly thixotropic so that it can be applied to ramps as well as to horizontal surfaces with the on-site addition of a thixotrope.

OASLASTIC 870 is used in a variety of general concrete waterproofing applications including balconies, terraces, podium decks and car park decks. It is also used in roofing applications.

PRODUCT HIGHLIGHTS

- Excellent mechanical properties and resistant to puncture.
- Thermoset – does not soften at high temperatures.
- Remains elastic at low temperatures.
- Excellent crack bridging capability.
- Can be re-coated after only a few hours.
- Solvent-free

RECOMMENDED USES

- Water proof construction: factories, mansions, barracks, etc.
- Impervious project: external or internal walls, basements.
- Indoor or outdoor floors, waterproof parking lots.
- Indoor or outdoor aisles, square, stadiums waterproof floors, etc.

Production information

Composition	0.15 kg/m ²
Mixing ratio	10:18
Mixed density (at 25°C)	1.28
Mixed viscosity (at 25°C)	5200
Pot life (at 10°C)	35 mins
(approx.) (at 20°C)	25 mins
(at 30°C)	15 mins
Recoating interval(at 25°C)	6 hrs
Full curing	7 days
Maximum VOC limit value	135 g/L

*** Coverage will vary according to the nature of the substrate.

*** Porosity and texture of the surface will affect the application and amount of primer for effective treatment.

PHYSICAL PROPERTIES

Property	Result
Hardness	70 (shore A)
Tensile strength	150 (kgf/cm ²)
Tear strength	55 (kgf/cm)
Elongation	700 (%)

*** Note: Results are based on the temperature of 25°C; relative humidity is below 50% and allowed to cure for 7 days.

Manufacturer:

CHINGTAI RESINS CHEMICAL CO., LTD.

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Version:20210620-1004

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SYSTEM BUILD UPS

OASDECK 2000(Medium to heavy traffic)

- Primer **OASPRIMER 203**
- Membrane **OASLASTIC 870**
- Wear layer **OASFLOOR 401**
- Finishing layer **OASFLOOR TC-683**

PACKAGING & STORAGE

OASLASTIC 870 Component A 10 kg

OASLASTIC 870 Component B 18 kg

- The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 0°C and +25°C. Higher storage temperatures may reduce shelf life of product.
- Store under cover out of direct sunlight and protect from extremes of temperature.
- Shelf life: See label on the package according to the above conditions.

APPLICATION METHOD

• Surface Preparation

The preparation of the substrate and the use of the appropriate primer are of paramount importance. All surfaces to which OASLASTIC 870 is applied should be sound, clean and dry and free from oil or grease, loose particles and any other substances which may impair adhesion. For substrate pre-treatment prior to the primer application see primer technical data sheet.

• Primer

OASPRIMER 203 In some circumstances, other primers may be more appropriate. For further details or other primers may be more appropriate please consult your local sales office.

• Mixing

Mixing OASLASTIC 870 is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both the A and B components to a temperature of approximately 15 to 25°C. DO NOT MIX A and B BY HAND. Mix with a mechanical drill and paddle at a low speed (approx. 300 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer bladed fully submersed in the coating to avoid introducing air bubbles.

• Application

OASLASTIC 870 is poured onto the prepared substrate and spread with a notched trowel or spreader (rubber or steel). The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down, this lengthens the pot-life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames

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mentioned above are shortened accordingly. To fully cure, the material, substrate and application temperatures should not fall below the minimum recommended. The temperature of the substrate must be at least 3K above the dew point both during and for at least 6 hours after application (at 15°C).

• Top coat

OASLASTIC 870 does not have sufficient UV and weather resistance to be used in exposed applications without protection. The recommended topcoat is OASFLOOR TC-683 which can be broadcast with dry silica sand to provide a hard wearing, slip resistant finish. Other top coats may be more suitable for specific applications, consult your local sales office for further details.

LIMITATION

- Do not apply to wet, contaminated or friable substrates.
- The temperature below 15°C will retard the curing.

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