

Two component, high solids aliphatic polyurea top coat

DESCRIPTION

OASFLOOR TC-683 is a high solids, aliphatic polyurea coatings based on advanced polymeric materials. It provides excellent abrasion resistance, chemical resistance, weather resistance, and color retention when used as a top coat with recommended **OASIIS** performance flooring system.

PRODUCT HIGHLIGHTS

- Low odor and low VOC
- Excellent UV and weather resistance
- Excellent mechanical properties
- Rapid cure to reduce downtime
- Easy to apply
- Ease of cleanup

RECOMMENDED USES

- **OASFLOOR TC-683** is designed for use as a wear resistant finish suitable for trafficked areas in a variety of flooring applications, including podium and car park decks.
- Where color and UV stability are necessary
- Interior or exterior

PRODUCTION INFORMATION

Composition	0.15–0.2 kg/m ²
Color	Grey and green
Mixing ratio (weight %)	1 : 1
Solid content	95% above
Specific gravity	1.2
Pot life (25 °C / 55% RH) †	30 mins
Tack free time (25 °C / 55% RH) †	40 mins
Full cure (25°C) †	7 days

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

† The drying times listed may vary, depending upon film build, color selection, paint and substrate temperature, humidity and degree of air movement.

PHYSICAL PROPERTIES

Property	Result	Test method
Gloss @ 60° Angle	≥ 80	ASTM D 523
Pencil hardness	H	ASTM D 3363
Adhesion	5B, Excellent	ASTM D 3359
Impact, N*m (direct)	≥ 20	ASTM D 2794
Mandrel bend (2 mm)	No Cracks, 180°	ASTM D 522
Water permeability	W ₃	EN 1062-3
Humidity resistance – 168 h	Excellent	CNS 11607

Manufacturer:

CHINGTAI RESINS CHEMICAL CO., LTD.

No. 50, Gong 2nd, Dajia Dist., Taichung City 43769, Taiwan
Version:20200708-1341 JF/RL

E-mail:service@chingtai-resins.com.tw

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Property	Result	Test method
Salt spray resistance – 168 h	Excellent	CNS 11607
Taber abrasion resistance, mg; CS-17 Wheel, 1000 g load, 1000 cycles	40	ASTM D 4060
QUV-UVA(1000 hrs)		
Gloss retention	≥ 85%	ASTM G 154
Delta E	≤ 1.0	
Volatile organic compounds, g/L	< 50	CNS 15039-2
Elongation at break, %	50	ASTM D 412
Tensile strength, kgf/cm²	180	ASTM D 412
Tear resistance, kgf/cm	80	ASTM D 624
Chemical resistance	10% HCl - no effect	ASTM D 1308
	10% H ₂ SO ₄ - no effect	
	50% Ethylene glycol - no effect	
	50% NaOH - no effect	
	Gasoline - no effect	
	Motor oil - no effect	

*** Note: Results are based on the temperature of 23°C; relative humidity is below 50% and allowed to cure for 7 days.

SYSTEM BUILD UPS

OASCOMPACT 2000(Medium to heavy traffic)

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

PACKAGING & STORAGE

- **OASFLOOR** Component A 5 kg
- **OASFLOOR** Component B 5 kg
- The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 15-30°C. 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

This coating can be applied by roller and brush. Best results are obtained in warm (minimum of 15°C), dry conditions with good ventilation.

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LIMITATION

- THIS product contains Isocyanates.
- Do not apply to wet, contaminated or friable substrates.
- Thickness cannot be exceeded 0.4 mm per coat in case to prevent the blister on the surface.
- The coverage will depend on the condition of the surface.

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