

MasterSeal[®] TC 225 (formerly known as Sonoguard topcoat)

A UV resistant coating for PU waterproofing membranes

DESCRIPTION

MasterSeal TC 225 is a liquid applied moisture-cure polyurethane seamless coating. MasterSeal Traffic Systems tough, aliphatic top coat ensures long life and suitability for public locations.

RECOMMENDED USES

Topcoat exterior surfaces subject to light vehicle and pedestrian traffic loads. Skid resistant textures are incorporated for safety as required. Substrates include **MasterSeal** Polyurethane Membranes.

Provides durable attractive membrane to:-
Carparks, Balconies, plaza decks, rooftops, plant rooms, over-coating of old membranes and copings.

FEATURES AND BENEFITS

- **Impervious**- Protects from chloride and salt intrusion
- **Skid resistant**- Increased pedestrian and vehicle safety
- **Systems available** - for various pedestrian and vehicular traffic situations.
- **Seamless membrane and crack bridging** - No joints to cause leaks
- **Repairable and re-coatable** - Extends the life of the system
- **Top coat UV resistant** - Suitable for exposed conditions
- **Range of colours available** - Attractive, decorative appearance
- **VOC Content-MasterSeal TC 225** 209 g/L of VOC, less water and exempt solvents.- Environmentally responsible

PROPERTIES

Property	Topcoat	Test Method
Hardness, Shore A	89	ASTM D 2240
Tensile strength MPa	17.2	ASTM D 412
Elongation, %	502	ASTM D 412
Tear strength, PIT	199	ASTM D 1004
Weight loss, %	17	Max 40
VOC content: g/L 210 (KH prod code P10-17)		

Weathering Resistance and Elongation Recovery (ASTM C957)

Skid Resistance

When applied in Top Coat Film with total coverage rate not exceeding 0.7 litres per metre square per coat.

Aggregate must be **MasterSeal Aggregate** at 0.5kg/m².

Slip Resistance	Wet – Coefficient	0.74
Slip Resistance	Dry – Coefficient	1.05

Test Method: AS/NZS 3661.1 and Compliance requirement is 0.40 minimum.

Chemical Resistance (ASTM C 957)

Chemical	Topcoat	Requirements
Ethylene glycol	92	Min 70
Mineral spirits	60	Min 45
Water	83	Min 70

	Topcoat
Supply form	Liquid single pack
Colour	Standard (Grey) or Tint
Application	Temperature >5°C
Specific gravity	1.09
Non volatiles,% (Solids by weight) ASTM D 1259	77
Viscosity, cps ASTM D 2393	2000-4000
Flash point ASTM D 56 (°C)	40.5

STANDARDS

- AS/NZS 3661.1 Slip Resistance
- ASTM C957
- UL 790 Class A Fire Rating
- ASTM E108
- ASTM E84



The Chemical Company

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APPLICATION

All preparatory work must be completed before application begins. Be certain the substrate is clean, dry, stable and properly profiled. Sealants and pre-stripping should be properly cured. Apply the base, mid and finish coats with a properly sized squeegee to arrive at the required thicknesses.

The best method to ensure the proper wet film thickness is the use of a grid system. Divide the surface to be coated into grids and calculate the square meters of surface to be coated. Calculate the quantity of MasterSeal TC 225 needed for each grid to arrive at the required thicknesses. The thickness of all coats can also be verified by the use of a wet film thickness gauge.

Apply 0.6 mm MasterSeal TC 225 using a proper notched squeegee at 1.5 m²/L.

Immediately back-roll to level MasterSeal TC 225 material and while the coating is still wet, broadcast MasterSeal broadcast aggregate or equivalent 16–30 rounded silica sand at 0.5–0.7 kg/m², then back-roll into the coating to fully encapsulate.

ESTIMATING DATA

One pail of **MasterSeal TC 225** will cover an area approximately 30 m², or a grid 30 by 10 by 3 m at 0.5 mm thick.

PACKAGING

MasterSeal TC 225 is available in 18.93 litre units. **MasterSeal Aggregate** is available in 20kg bags.

SHELF LIFE

MasterSeal TC 225 has a shelf life of 12 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website.

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STATEMENT OF RESPONSIBILITY

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NOTE

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