

DUROPROOF TTC

SINGLE-PACK ALIPHATIC TOP COAT



DESCRIPTION

Duroproof TTC is a high performance, high chemical and UV resistant, hand-applied, moisture curing single-pack polyurethane topcoat. Duroproof TTC is vehicle or foot trafficable. Duroproof TTC has been tested to pass accelerated UV testing using UVB light at 2000 hours

USE AREA

It is designed for coating Polyurethane or Polyurea waterproofing membranes to bring trafficability, easy cleaning and gloss.

FEATURES

- 68% Solids
- Easy to use and apply
- Quick skin building time and tack free surface
- Good UV resistance and light stability
- High resistance to puncture
- High resistance to fouling
- High resistance to chemicals

COVERAGE

1 coat of 250-400 g/m² will provide a durable layer of 0.15-0.25 mm. Final dry film thickness must be a minimum of 0.2 mm (200 micron).

The number of coats will depend on the degree and type of traffic.

For light foot traffic a single coat at 400 g/m² is recommended.

For heavy foot traffic and vehicular traffic two coats of 400 g/m² is recommended.

TECHNICAL INFORMATION

Hardness (Shore A)	90 ± 5
Tensile strength (Mpa)	> 30
Elongation (%)	> 140
Non Volatiles (%)	68 ± 2
Tack free time* (hours)	3
Curing Time* (hours)	12
Service Temperature (°C)	-20 to +80
Density (Liquid) (g/cm ³)	1.04
Density (Solid) (g/cm ³)	1.12
Recommended substrate temperature (°C)	+5 to +35
Recommended substrate moisture (%)	Up to 5
Colour	Clear
UV resistance	2000 hours accelerated testing, no visible cracks, blister or chalk.
UVB-313-EL Lamp Wavelengths ~310nm Irradiance: 0.71 W/m ² /nm 4 hours UV @ 60°C + 4 hours Humidity @ 50°C	



APPLICATION

Duroproof TTC is supplied in ready-to-use pails. Duroproof TTC must be mechanically mixed before application. Shaking the pail will not provide sufficient mixing to the product. Mix the product for 2-3 minutes at 300-400RPM with a power drill with a paint mixing tool attachment. Avoid introducing air into the product when mixing.

Duroproof TTC should be applied with a squeegee (wiper) or roller.

Duroproof TTC can be subject to light pedestrian traffic after 24 hours. It is recommended to allow 7 days of curing for vehicle traffic.

The cure rate of Duroproof TTC will depend on the ambient and substrate temperatures as well as the relative humidity. In colder climates the cure rate will be prolonged which will increase the pot life, re-coat interval and working time. Conversely, at higher temperatures the cure rate will be reduced which will decrease the pot life, re-coat interval and working time.

If using Duroproof TTC on waterproofing membranes, make sure that the appropriate reinforcing fabric or bond breakers have been used in angled sections to avoid expansion movement damage. Please consult your waterproofing supplier or AS4654.2 for additional information.

Duroproof TTC should not be used in ponding water areas.

In extremely cold conditions, heating units should be used to bring the product back to 15-25°C to allow for workability.

Re-coating instructions:

In normal conditions, Duroproof TTC can be re-coated with another layer of Duroproof TTC after 12 hours and before 36 hours.

Contact your Durotech representative with any questions.

Diluting:

Duroproof TTC should not be diluted unless under the instruction of a Durotech representative.

CLEAN-UP

Reusable tools should be cleaned carefully with Xylene or MEK before curing.

SHELF LIFE

Shelf life of sealed Duroproof TTC in its original unopened packaging is 12 months. Always store closed containers in cool, ventilated and dry location, away from heat and oxidizing agents. Do not store in direct sunlight or in temperatures below 5°C or above 35°C.

SAFETY

As Duroproof TTC is solvent based, any application site must be free of naked flames or spark sources. Fresh air should be circulated on site.

Please refer to the Material Safety Data Sheet (MSDS) for personal protection, proper handling and storage.

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