

SPORTHANE TOPCOAT



OVERVIEW

SPORTHANE TOPCOAT is a two component, quick drying, polyurethane resin based finishing coat with excellent workability and resistance to weathering, abrasion, chemicals and crack.

- **Recommended Use**

As a finishing coat in SPORTHANE coating system.

PHYSICAL PROPERTIES

1. Finish and Color

Gloss. Flat. Grey, Green. Other colors are available on request.

2. Drying Time

Substrate temperature	10°C/50°F	20°C/68°F	30°C/86°F
Set to touch	2 hours	1 hour	40 mins.
Dry through	18 hours	9 hours	6 hours
Fully cured	7 days	5 days	4 days

3. Solids by Volume

Approx. 52%

4. Spreading Rate (Theoretical)

10.4m² / L in 50 microns dry film thickness on a smooth surface.

5. Specific Gravity

Approx. 1.2 ~ 1.3

6. Flash Point

27°C (Closed cup)

APPLICATION DETAILS

1. Surface Preparation

Remove any oil, moisture, dust and other contaminants from the surface to be coated.

2. Preceding Coat

- * SPORTHANE PRIMER / SPORTHANE ELASTIC MIDCOAT / SPORTHANE HARD LAYER MIDCOAT
- * SPORTHANE PRIMER / SPORTHANE WATERPROOFING COAT KS CLASS 1 or according to specification.

3. Application Conditions

The surfaces must be completely clean and dry.

Do not apply when the temperature is less than 5°C/41°F, and relative humidity is above 80%.

The surface temperatures must be at least 3°C(5°F) above dew point to prevent condensation.

4. Mixing

1. Gloss

Base(PTA) : Curing Agent(PTB) = 3.2 : 1 (by Volume)

2. Flat

Base(PTA) : Curing Agent(PTB) = 3.4 : 1 (by Volume)

(Mix thoroughly with high speed dissolver for 5 minutes prior to application)

5. Pot Life & Recoating Interval

		10°C/50°F	20°C/68°F	30°C/86°F
Pot Life		6 hours	5 hours	3 hour
Recoating Interval	Min.	18 hours	9 hours	6 hours
	Max	5 days	3 days	2 days

6. Thinning

SPORTHANE THINNER (Thinning ratio : Max. 20% by Volume)

7. Method of Application

Brush, Roller, Spray(Spattering) application.

8. Film Thickness

Recommended per coat 50 microns dry.

10. Shelf Life

BASE (PTA) : 12 months

CURING AGENT (PTB) : 12 months

* Store in cool, dry, well-ventilated place.

11. Packing

		PTA	PTB	TOTAL
GLOSS	1	9.6 L	3 L	12.6 L
	2	2.74 L	0.86 L	3.6 L
FLAT	1	10.2 L	3 L	13.2 L

Remarks

Keep the thinning ratio(Max.20%), or the color separation and blemish will occur.
Mixture(PTA & PTB) should be applied within 2 hours, or adhesion will be decreased.
If the surface is not tacky from rain and snow, SPORTHANE PRIMER should be applied prior to application. In this time, spreading rate of SPORTHANE PRIMER is 0.1Kg/m². Thick film per coat may result in bubbling defect. Avoid humidity. Protect skin and eyes, and prolonged breathing of solvent vapors. In case of contact, wash with organic solvent and followed by soap and water cleaning. Keep away from sparks and open flames. Use adequate ventilation.

Issued

April, 2012

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KCC Corporation



SPORTHANE EXPOSURE WATERPROOFING COAT is a two component, polyurethane resin based waterproof coating with excellent weathering and elongation to provide adaptability to crack of substrate.

Recommended use	As a waterproof coating for exposed area of roof and other parts of buildings.
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Physical Properties

Finish and Color	Gloss. Grey, Green. Other colors are available on request.
Specific gravity	Approx. 1.4
Solids by volume	Above 94%
Spreading rate (Theoretical)	4.4Kg/m ² in 3m/m dry film thickness on a smooth surface.
Flash point	151 °C (Closed cup)

Application details

Surface preparation	Do not apply coating unless concrete has cured at least 28 days at 20°C/68°F and below 80% R.H or equivalent. Moisture content of the surface must be below 6%. The surface should be free of laitance. This can be accomplished by finishing technique, abrasive blasting, grinding, etc.			
Preceding coat	SPORTHANE PRIMER or according to specification. SPORTHANE PRIMER + Scraping: SPORTHANE EXPOSURE WATERPROOFING COAT (0.5~0.8mm)			
Method of application	Rake and Spatula			
Mixing	Base(PTA) : Curing Agent(PTB) = 1 : 2.66(by weight). Mix separately, then combine together and mix thoroughly with high speed dissolver for 5 minutes prior to application.			
Thinning	Do not dilute.			
Application conditions	Do not apply when the temperature is less than 5°C/41°F, and relative humidity is above 80%. The surface temperatures must be at least 3°C (5°F) above dew point to prevent condensation.			
Film thickness	Recommended per coat 2- 3m/m dry (Except for scraping)			
Drying time		5°C/41°F	20°C/68°F	30°C/86°F
	Set to touch	10 hours	5 hours	3 hours
	Dry through	48 hours	24 hours	18 hours
	Fully cured	10 days	5 days	3 days
Subsequent Coat	SPORTHANE TOPCOAT or according to specification.			
Pot life		5°C/41°F	20°C/68°F	30°C/86°F
	Pot Life	50 mins.	30 mins.	20 mins.
Recoating		5°C/41°F	20°C/68°F	30°C/86°F

interval	Min.	48 hours	24 hours	18 hours
	Max	96 hours	48 hours	36 hours
Storage and package				
Shelf life	BASE (PTA) : 12 months CURING AGENT (PTB) : 12 months * Store in cool, dry, well-ventilated place			
Packing Unit	Base(PTA) : Curing Agent(PTB) = 8.3Kg : 22.1 Kg X 1 5.46Kg : 14.54 Kg X 1			
Remarks				
Note	If the surface is not tacky from rain and snow, SPORTHANE PRIMER should be applied prior to application. In this time, spreading rate of SPORTHANE PRIMER is 0.1Kg/m². Bubbling may occur in case of applying this material in the high temperature (air : above 28℃/82°F, surface : above 40℃/104°F). Do not store at temperature above 30℃/86°F. Use adequate ventilation. Avoid contact with skin and eyes, and prolonged breathing of solvent vapors. In case of contact, wash with organic solvent and followed by soap and water cleaning. Respiratory protection is recommended when applying this product in confined spaces or stagnant air. Clean equipment with THINNER No.002 immediately after use.			
1'st issue	2011-09-01			
Revision				

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SPORTHANE PRIMER (One-Component)



OVERVIEW

SPORTHANE PRIMER is a moisture curing polyurethane resin based coating with very quick drying. It penetrates into substrate of cement and concretes deeply, and enhances the surface strength, and promotes the adhesion between substrate and subsequent coat.

- **Recommended Use**

As a primer cement and concretes.

PHYSICAL PROPERTIES

1. Finish and Color

Clear.

2. Drying Time

Substrate temperature	5°C/41°F	20°C/68°F	30°C/86°F
Set to touch	30mins	10mins	5mins
Dry through	1hour	40mins	30mins
Fully cured	2hours	80mins	1hour

3. Solids by Volume

Above 33%

4. Spreading Rate (Theoretical)

8m²/L in 43microns dry film thickness on a smooth surface.

5. Specific Gravity

Approx. 1.04 (kg/L)

6. Flash Point

25°C/81°F (Closed cup).

APPLICATION DETAILS

1. Surface Preparation

Remove fins, protrusions, laitance and other impurities from the surface to be coated.
Repair the severely damaged areas with cement mortar or resin mortar. Do not apply when the temperature is less than 5°C/41°F and relative humidity is above 80%.

2. Application Conditions

The surfaces temperature must be above the dew point to avoid condensation.

3. Thinning

SPORTHANE THINNER (Thinning ratio : Max. 30% by volume)

4. Method of Application

Brush, Roller, Spray(air or airless) application.

5. Film Thickness

Recommended per coat 43 microns dry.

6. Subsequent Coat

SPORTHANE WATERPROOFING BASE or SPORTHANE WATERPROOFING COAT KS CLASS 1 PTA as per specification.

7. Recoating Interval

At 20°C Min. : 2hours

Max. : 24hours

Remarks

If the surface is not tacky from rain and snow, it should be slightly sanding and then 30% mixed with SPORTHANE thinner. SPORTHANE PRIMER should be applied prior to application. Avoid humidity. Protect your skin and eyes, and prolonged breathing of solvent vapors. In case of contact, wash with organic solvent and followed by soap and water cleaning. Keep away from sparks and open flames. Use adequate ventilation.

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