

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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 **KCC Corporation**



SPORTHANE HIGH HARD LAYER MIDCOAT is a two component, polyurethane resin based floor coating with high hardness and elongation to provide adaptability to crack of substrate.

Recommended use	As floor coating with high hardness and elongation, parking lot floor, Facilities (office, hospital) floor, etc
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Physical Properties

Finish and Color	Gloss. Green, Light grey Other colors are available on request.
Specific gravity	Approx. 1.2
Solids by volume	Above 94 %
Spreading rate (Theoretical)	3.9Kg/m ² in 3m/m dry film thickness on a smooth surface.
Flash point	27°C /80.6°F (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 HIGH HARD LAYER MIDCOAT (0.5~0.8mm)			
Method of application	Rake and Spatula.			
Mixing	PTA(Part A) : PTB(Part B) = 1.17 : 1 (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.			
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 HIGH HARD LAYER TOPCOAT, SPORTHANE HIGH HARD LAYER TOPCOAT (EXTERIOR) or according to specification.		
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Pot life		5°C /41°F	20°C /68°F	30°C /86°F
	Pot Life	50 mins.	30 mins.	20 mins.
	Recoating Interval	Min	48 hours	24 hours
Max		72 hours	48 hours	36 hours

Recoating interval	Recommended per coat 2- 3m/m dry (Except for scraping)
Storage and package	
Shelf life	PTA, PTB : 12 months * Store in cool, dry, well-ventilated place.
Packing Unit	Base(PTA) : Curing Agent(PTB) = 21.06 Kg : 18 Kg Base(PTA) : Curing Agent(PTB) = 10.8 Kg : 9.2 Kg
Remarks	
Note	<p>If the surface is not tacky from rain and snow, SPORTHANE PRIMER should be applied prior to application.</p> <p>In this time, spreading rate of SPORTHANE PRIMER is 0.1Kg/m².</p> <p>Bubbling may occur in case of applying this material in the high temperature (air : above 28°C/82°F, surface : above 40°C/104°F).</p> <p>Do not store at temperature above 30°C/86°F.</p> <p>Use adequate ventilation.</p> <p>Avoid contact with skin and eyes, and prolonged breathing of solvent vapors.</p> <p>In case of contact, wash with organic solvent and followed by soap and water cleaning.</p> <p>Respiratory protection is recommended when applying this product in confined spaces or stagnant air.</p> <p>Clean equipment with SPORTHANE THINNER immediately after use.</p>
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Revision	

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'HYPERUREA PU295A' is two components; polyurea resin based waterproof coating with excellent strength and elongation to provide adaptability to crack of substrate. 'HYPER UREA PU295A' is a 100% solids elastomeric polyurea, volatile free, odorless system applied 1:1 ratio with plural component spray equipment. 'HYPER UREA PU295A' cures in 8-15 seconds, forming a monolithic membrane suitable for concrete and metal applications. As a result, downtime is minimized, allowing rapid return to service of the parts coated.

Recommended use	As a waterproof coating for exposed area of roof and other parts of buildings. 'HYPER UREA PU295A' can be applied to suitably prepared concrete and metal surfaces. It may be applied in single or multiple applications without appreciable sagging and is relatively insensitive to moisture and temperature allowing application in most temperatures.
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Physical Properties

Finish and Color	Semi gloss, Colors are available on request
Specific gravity	Mixed : Approx. 1.07 (kg/L)
Solids by volume	Approx. 100%.
Spreading rate (Theoretical)	2.2 kg/m ² in 2 mm dry film thickness on a smooth surface.

PHYSICAL PROPERTIES	Properties	Unit	Result
	Hardness	Shore A	> 95 (ASTMD 2240)
	Tensile strength	N/mm ²	> 18 (KS F 4922)
	Elongation	%	> 300% (KS F 4922)
	Tear strength	N/mm	> 70 (KS F 4922)
	Abrasionresistance	mg	< 10 (ASTMD 4060)

Application details

Surface preparation	Do not apply coating unless concrete has cured at least 28 days at 20°C/68°F and below 80% RH 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.
Method of application	Use high temperature, high pressure, impingement mix plural-components spray equipment. * Application temperature : 65°C (150°F) ~ 75°C (160°F) * Application pressure : 2,000 ~ 3,500 psi.
Mixing	Base(PTA) : Curing Agent(PTB) = 1 : 1 (by volume).
Thinning	Do not dilute
Application	Do not apply when the temperature is less than 5°C/41°F, and relative humidity is above 80%.

conditions	The surface temperatures must be at least 3°C (5°F) above dew point to prevent condensation
Film thickness	Recommended per coat 2- 3 mm dry
Drying time	Tack Free : 8 ~ 15 seconds.
Subsequent Coat	SPORTHANE HIGH HARD LAYER TOPCOAT(EXTERIOR) or according to specification.
Pot life	BASE (PTA) : 6 months CURING AGENT (PTB) : 12 months * Store in cool, dry, well-ventilated place
Recoating interval	Max. 24 Hours

Storage and package	
Shelf life	BASE (PTA) : 6 months CURING AGENT (PTB) : 12 months
Storage	* Store in cool, dry, well-ventilated place.
Packing Unit	Base(PTA) : Curing Agent(PTB) = 180 L : 180 L

Remarks	
Note	<p>The surface is not tacky from rain and snow, SPORTHANE PRIMER should be applied prior to application.</p> <p>In this time, spreading rate of SPORTHANE PRIMER is 0.1Kg/㎡.</p> <p>Do not store at temperature above 30°C/86°F. Use adequate ventilation.</p> <p>Avoid contact with skin and eyes, and prolonged breathing of solvent vapors.</p> <p>In case of contact, wash with organic solvent and followed by soap and water cleaning.</p> <p>Respiratory protection is recommended when applying this product in confined spaces or stagnant air.</p> <p>Clean equipment with SPROTHANE THINNER immediately after use.</p> <p>If you have any questions about products or you want to know safety information, you can get the MSDS on our Internet Homepage (www.kccworld.co.kr) Or ask the customer's service.</p>
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Revision	

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SPORTHANE HIGH HARD LAYER TOPCOAT(EXTERIOR) 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 for use on floor coating with high hardness(Outdoor)
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Physical Properties

Finish and Color	Gloss. Flat. Semi-gloss, Green. Other colors are available on request
Specific gravity	Approx. 1.2~1.3
Solids by volume	Approx. 58%
Spreading rate (Theoretical)	0.11Kg/m ² in 50 microns dry film thickness on a smooth surface
Flash point	27°C (Closed cup)

Application details

Surface preparation	Remove any oil, moisture, dust and other contaminants from the surface to be coated.			
Preceding coat	SPORTHANE PRIMER / SPORTHANE HIGH HARD LAYER MIDCOAT SPORTHANE PRIMER / SPORTHANE SUPER HARD LAYER MIDCOAT SPORTHANE PRIMER / SPORTHANE THIN FILM FLOOR COAT or according to specification.			
Method of application	Brush, Roller, Spray(Spattering) application.			
Mixing	1. Gloss Base(PTA) : Curing Agent(PTB) = 2 : 1 (by weight) 2. Semi-gloss Base(PTA) : Curing Agent(PTB) = 3.5 : 1 (by weight) 3. Flat Base(PTA) : Curing Agent(PTB) = 3.5 : 1 (by weight) Mix thoroughly with high speed dissolver for 5 minutes prior to application.			
Thinning	SPORTHANE THINNER. (Thinning ratio : Max. 20% by volume)			
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			
Film thickness	Recommended per coat 50 microns dry			
Drying time		10 °C /50 °F	20 °C /68 °F	30 °C /86 °F
	Set to touch	40 mins	20 mins	10 mins
	Dry through	10 hours	8 hours	6 hours

	Fully cured	7 days	5days	4days	
Pot life		5 °C /41 °F	20 °C /68 °F	30 °C /86 °F	
	Pot Life		3 hours	2 hours	1 hours
	Recoating Interval	Min	18 hours	9 hours	6 hours
		Max	5 days	3 days	2 days

Storage and package

Shelf life	BASE (PTA) : 12 months CURING AGENT (PTB) : 12 months
Storage	Store in cool, dry, well-ventilated place
Packing Unit	1. Gloss Base(PTA) : Curing Agent(PTB) = 11 Kg : 5.5 Kg 2. Semi-gloss Base(PTA) : Curing Agent(PTB) = 19.5 Kg : 5.5 Kg 3. Flat Base(PTA) : Curing Agent(PTB) = 19.5 Kg : 5.5 Kg

Remarks

Note	<p>Keep the thinning ratio(Max.25%), or the color separation and blemish will occur.</p> <p>Mixture(PTA & PTB) should be applied within 2 hours(10°C,20°C), 1 hours(30°C), or adhesion will be decreased.</p> <p>If the surface is not tacky from rain and snow, SPORTHANE PRIMER should be applied prior to application.</p> <p>In this time, spreading rate of SPORTHANE PRIMER is 0.1Kg/m².</p> <p>Thick film per coat may result in bubbling defect.</p> <p>Avoid humidity.</p> <p>Protect skin and eyes, and prolonged breathing of solvent vapors.</p> <p>In case of contact, wash with organic solvent and followed by soap and water cleaning.</p> <p>Keep away from sparks and open flames.</p> <p>Use adequate ventilation.</p>
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