

APPLICATION GUIDE LINE (HYPERUREA PU295A)

1. Application

Waterproof coating for concrete floor, roof and other parts of building

2. Coating system

Description	DFT	Method	Color	Remarks
SPORTHANE PRIMER	43 μm	B,R,S	Clear	One component urethane primer for cement mortar, concrete
HYPERUREA PU295A	2,000 μm	Impingement spray	Green, Light grey, Sky blue	Fast set spray type two component polyurea coating (other colors are available on request)
SPORTHANE HIGH HARD LAYER TOPCOAT(EXTEROR)	50 μm	B,R,S	Green, Light grey	Two component urethane top coat for prevent ion UV ray system only (other colors are available on request)

B : Brush, R : Roller, S : Spray

3. Guide line for coating method

A. Surface preparation

- 1) Concrete must be cured at least 28 days at 20°C/68°F and below 85% RH or equivalent
- 2) Remove any oil and grease from surface to be coated. Surface must be grinded or abrasive blasted to remove laitance and other impurities.
- 3) Optimum pH value is 7 ~ 9 %.
- 4) Moisture content of the concrete surface must be below 8%.
- 5) Any defected surface area such as a gap, groove or crack and Joint area should be V-Cut. After V-Cutting, Apply 'SPORTHANE PRIMER' and seal with 'SPORTHANE SEALER'.
(SPORTHANE PRIMER : KCC Urethane primer, SPORTHANE SEALER : KCC Urethane sealer)
- 6) When insulation system required, apply an appropriate POLYURETHANE FOAM.
- 7) Coating is must be started after surface preparation product are fully cured.

B. Application conditions

- 1) Do not apply when the temperature is less than 5°C/41°F, and relative humidity is above 80%.
- 2) The surface temperatures must be at least 3°C/5°F above dew point to prevent condensation.

C. Application process (Impingement spray)

- 1) Equipment (for example)

Description	Pumps	Dispensing Gun
GRACO / GUSMER REACTOR	E-XP1 (Electric)	FUSION AP (Air purge)
	E-XP2 (Electric)	GAP PRO (Air purge)
	H-XP2 (Hydraulic)	FUSION MP (Mechanical purge)
	H-XP3 (Hydraulic)	GX-7 (Mechanical purge)

- 2) Process condition

- a. Temperature : 65°C/150°F ~ 75°C/160°F
- b. Pressure : 1,800 ~ 2,500 psi
- c. Diameter of nozzle throat:
flat pattern (0.024 ~ 0.048 inch), round pattern (0.020 ~ 0.086 inch)

4. Coating Details

- 1) SPORTHANE PRIMER (one-component)

- a. Thinning SPORTHANE THINNER (Thinning ratio : Max. 30% by volume)
- b. Recoating Interval At 20°C/68°F, Min. : 2 hours, Max. : 24 hours.
- c. Spreading Rate 0.12 L/m² on a smooth surface (Theoretical)
- d. Remarks If the surface is not tacky from rain and snow, it should be slightly sanding and then 30% mixed with SPORTHANE thinner.

- 2) HYPERUREA PU295A (two-component)

- a. Thinning Do not dilute
- b. Recoating Interval At 20°C/68°F, Max. : 48 hours.

- c. Spreading Rate 2.1 kg/m² on a smooth surface. (Theoretical)
- d. Remarks Initially, it must mist coated to prevent pin hole on the coating surface.
Pin hole is formed on the coating film due to the porous substrate.
A cross hatch spray pattern is strongly encouraged.
When problems (bubble or tacky) occur on the coating surface, that region has to removed from the surface before recoating.

3) SPORTHANE HIGH HARD LAYER TOP COAT (EXTERIOR) (two-component)

- a. Thinning SPORTHANE THINNER (Thinning ratio : Max. 20% by volume)
- b. Open time At 20°C/68°F, 3 hours
- c. Recoating Interval At 20°C/68°F, Min. : 2 hours, Max. : 24 hours.
- d. Spreading Rate 0.11 kg/m² on a smooth surface (Theoretical)
- e. Remarks Keep the thinner and thinning ratio.
Otherwise, the color separation and the color difference will occur.

5. Cautions

- 1) Do not store at temperature below 5°C/41°F or above 40°C/104°F
- 2) Keep away from sparks, flames, direct sun light, rainwater and snow.
- 3) Do not mix with other paints.
- 4) Use with adequate ventilation.
- 5) Actual paint consumption can be changed depending on the site condition.
- 6) Protect skin and eyes from direct contact with liquid paint, and avoid prolonged breathing of solvent vapors.
- 7) Respiratory protection is recommended when applying this product in confined spaces or stagnant air.
- 8) In case of contact, wash with organic solvent and followed by soap and water cleaning.
- 9) Clean equipment with organic solvent immediately after use.
- 10) If you have any questions about products or you want to know safety information, you can get the technical datasheets and MSDS on our Internet Homepage (www.kccworld.co.kr) or ask the customer's service.