



KCC 'HYPER UREA HB180A' is two components: hybrid polyurea resin based waterproof coating with excellent strength and elongation to provide adaptability to crack of substrate. Hybrid polyurea resin is the reaction product of Diphenylmethane diisocyanate (MDI) prepolymer resin and a mixture of polyol and polyamine resins. 'HYPER UREA HB180A' is a 100% solids elastomeric polyurea, volatile free, odorless system applied 1:1 ratio with plural component spray equipment. 'HYPER UREA HB180A' cures in 60 seconds, forming a monolithic membrane suitable for concrete 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. 'HYPERUREA HB180A' can be applied to suitably prepare concrete surfaces and non-ferrous metal roof. 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.
------------------------	---

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)	2.3 kg/m ² in 2 mm dry film thickness on a smooth surface.		
PHYSICAL PROPERTIES	Properties	Unit	Results
	Hardness	Shore A	> 85 (ASTM D 2240)
	Tensile strength	MPa	> 10 (ASTM D 412)
	Elongation	%	> 350% (ASTM D 412)
	Tear strength	N/mm	> 50 (ASTM D 412)

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 8%. The surface should be free of laitance. This can be accomplished by finishing technique, abrasive blasting, grinding, etc.
Preceding coat	Concrete substrate : SPORTHANE PRIMER or according to specification. Non-ferrous metal substrate : KOREPOX PRIMER EP1730 or according to specification
Method of application	Use low temperature, low pressure, and static mixing spray equipment. * Application temperature : 20°C (°F) ~ 40°C (°F) * Application pressure : 500 ~ 1,000 psi. (34 ~ 68 atm) Also possible to 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 ~ 2,500 psi. (136 ~ 170 atm)
Mixing	Base(PTA) : Curing Agent(PTB) = 1 : 1(by volume). * Static mixing or impingement mixing
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~ 3 mm dry
Drying time	10 ~ 30 seconds
Subsequent Coat	SPORTHANE HIGH HARD LAYER TOP COAT (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. 48 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) = 18 L : 18 L

Remarks

Note	Do not store at temperature below 5°C/41°F or above 40°C/104°F Keep away from sparks, flames, direct sun light, rainwater and snow. The surface is not tacky from rain and snow, SPORTHANE PRIMER should be applied prior to application. Actual paint consumption can be changed depending on the site condition. 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 organic solvent immediately after use. 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.
1'st issue	2012-02-01
Revision	

Disclaimer : The information in this data sheet is believed to the best of our knowledge based on laboratory test and practical experience. However, there are many factors affecting the performance of product and the product quality itself, so we are not able to guarantee without the confirmation of the purpose of using the product from us in writing. We reserve the right to change the data without notice and you should check that this data sheet is current prior to using the product.

