



COATLOK™ U-255PW

TECHNICAL DATA SHEET

Coatlok™ U-255PW is a two component, polyurea elastomer, 100% solids, no VOC's. This reactive, two-component elastomeric system is based on amine terminated resins and a MDI (diphenylmethane diisocyanate) prepolymer. The membranes resulting from the reactions have properties which are exceptionally suited to perform as durable protective coatings. Upon application, the two components quickly react, turning into a high-quality, seamless membrane which is immediately resistant to water and can be walked on after application, while being resistant to cracks and breaks during expansion and contraction.

Coatlok U-255PW can be used as an inner lining within potable water tanks or pipes. It can be sprayed on steel, concrete, foam, plastic, etc. With its fast reactivity, the product can be applied to horizontal and vertical substrates.

Common Uses: Potable water tanks, Coatlok U-255PW satisfies the requirements of NSF 61 potable water test procedure (volume 1500 gallon and greater) and pipes (diameter 36" and greater).

PHYSICAL PROPERTIES			
Tensile Strength	2500 – 3000 psi	17.2 – 20.7 Mpa	ASTM D 412 C
Elongation	300 – 400%		ASTM D 412 C
Shore D Hardness	50 – 55		ASTM D 2240
Tear Resistance	350 – 400 pli		ASTM D 624

LIQUID COMPONENT PROPERTIES*		
PROPERTY	COATLOK U255PWA	Coatlok U255PWB
Color	Transparent, Yellow	Transparent, pale yellow to amber
Viscosity @ 77°F (25°C)	1000 – 1400 cps	100 – 400 cps
Specific Gravity @ 77°F (25°C)	1.09 – 1.15	0.95 – 1.05
Shelf Life of unopened drum properly stored	6 months	6 months
Storage Temperature	59 – 86°F (15 – 30°C)	59 – 86°F (15 – 30°C)
Mixing Ratio (volume)	1:1	1:1

*See SDS for more information.

REACTIVITY PROFILE	
Gel Time	6 – 7 seconds @ 77°F (25°C)
Light Traffic	3 – 4 hours @ 70°F (21°C) (cure time will be longer at lower temperatures)
Cure Time	24 hours @ 70°F (21°C) (cure time will be longer at lower temperatures)
Final Cure Time @ Final Cure Temperature	7 days @ 73°F (23°C)

PROCESSING PARAMETERS	
Recommended Thickness	40 – 60 mils
Coverage Rate	27 sq. ft. at 60 mils thick, per 1 gallon of system (iso and resin)
Number of Coats	1
Dew Point	Substrate temperature must be 5°F (3°C) above dew point and rising before application
Maximum Relative Ambient Humidity	80%
Processing Setpoint Temperature (Primary Heater & Hose Heat)	150°F (65°C)
Processing Setpoint Pressure	2000 – 2500 psi
Substrate & Ambient Temperature	> 23°F (-5°C)

*It is the sole responsibility of the applicator to process and apply Coatlok U255PW within specification.

If in doubt about the substrate temperature or surface conditions, a trial application should be conducted to check product quality and spray performance. Please consult the Huntsman Building Solutions Technical Service Department for further assistance.

General Requirements: Equipment must be capable of delivering the proper ratio (1:1 by volume) of isocyanate and resin at adequate temperatures and spray pressures. Substrate must be at least 5°F above dew point, with a maximum relative humidity of 80%. Substrate must also be free of moisture (dew or frost), grease, oil, solvents and other materials that would adversely affect adhesion of the product. This product must not be used when the continuous service temperature of the substrate or product is below -10°F (-23°C) or above 140°F (60°C).

Disclaimer: The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, expressed or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent inferred. All patent rights are reserved. The product is combustible and must be protected in accordance with applicable codes. Protect from direct flame and spark contact, around hot work for example. The exclusive remedy for all proven claims is replacement of our materials.