DESCRIPTION:

Nukote Polyprime I is a two component 1:1 ratio, rapid setting, non-sag, liquid applied, aromatic urethane polyurea primer suitable for concrete and masonry substrates. Nukote Polyprime I is easy to apply, sets quickly, and has excellent physical properties. Nukote Polyprime I is the ideal primer when dealing with sub- zero temperature.

FEATURES:

- 100% solids with zero VOC
- Non Toxic
- Fast setting
- Odorless
- Low temperature curing -10 °F (-12 ºC)
- Rapid Cure and In-Service Times
- Remains Flexible in Wide Range of Temperatures

TYPICAL USES:

- Polyurea Primer
- Concrete primer for other NCS coatings

COLORS:

Standard color is Black. A clear amber and gray are also available upon request subject to minimum quantity.

PACKAGING:

100-gallon (380-liter) drum sets, shipped in metal drums of 50 gallons (190 liters) each of side A and side B
10-gallon (38-liter) kits, shipped in plastic pails of 5 gallons (19 liters) each of side A and side B
275-gallon (1045 liter) totes.

COVERAGE:

Nukote Polyprime I spread rate is 400 ft^2/ gal at 4 mils (10 m2/liter at 100 microns) thickness without factoring any loss

STORAGE:

Twelve to fifteen months in factory delivered, unopened drums. Store on pallets and keep away from extreme heat, freezing, and moisture.

MIXING:

Nukote Polyprime I might not be diluted under any circumstance. Polyprime I should be applied using a 1:1 heated proportioning dispensing system Product should be Pre conditioned to 80 ºF (27 ºC)

LIMITATIONS:

Do not open until ready to use, and store in a sealed container after opening. Containers that have been opened must be used as soon as possible. Surfaces must be dry, clean and free of foreign matter. Not UV stable. Will discolour in exterior applications

TECHNICAL DATA (All values @ 77 ºF / 25 ºC)	US	Metric
Solids by volume (ASTM D2697)	100%	100%
Volatile organic compounds (ASTM D2369)	0 lb./gal	0 gm/ lit
Theoretical coverage	400 ft^2/gal @ 4 mils	10m^2/ lit @ 100 microns
Specific Gravity of materials (ASTM D792)	A: 9.23, B: 7.9 lbs./gal	A:1.106, B:0.95kg/ liter
Viscosity at 77 ºF /25 ºC in cps ±10% (ASTM D4878)	A-20, B-20	A-20, B-20
Shelf life @ 77 ºF /25 ºC	09 to 12 Months	09 to 12 Months
Flash point Pensky Martin	>200 ºF	>93 ºC
Service temperature (Dry)	-4 ºF to 194 ºF	-20 ºC to 90 ºC
PROCESSING PROPERTIES (Under standard lab conditions)		
Mix Ratio V/V	1:1	
Gel time	5 to 10 minutes	
Tack free time (DFT & Temperature dependent)	10 to 30 minutes	
Maximum Recoat time	2- 3 hours	
Properties and values are highly dependent on equipment, spray gun, mix chamber temperature, pressure and related parameters. Variations are possible and expected.		

SURFACE PREPARATION:

The surface of a concrete subfloor should be dry, smooth, structurally sound and free of depression, scale, or foreign deposits of any kind. Remove all curing compounds. Abrasive blast, sweep blast or water blast to remove all latent material and expose voids. Use a good quality epoxy filler or mortar for void and spall filling, skim coat or repairs. Prime, fill imperfections in the substrate surface to limit out-gassing. All concrete substrates, on or below grade level should be tested for moisture content. On-grade or below-grade concrete floors or slabs should have a moisture barrier installed to protect from ground moisture. The surface preparation of concrete should meet and conform to Joint NACE 6/SSPC-SP 13 standards and achieve a concrete surface profile of CSP 3 to CSP 6 as per ICRI Guideline No.03732 for optimum performance.

APPLICATION:

Must be applied utilizing a 1:1 proportioning dispensing system . Precondition the material to 80 °F (30 °C) before mixing. This type of system transfers, meters, and mixes the co-reactive Part-A and Part-B components at a very high rate and at the required proportions. Allow primer to dry for 10-20 minutes before over coating. The product is suitable for application in extreme cold weather 10 °F (-12 °C).

EQUIPMENT CLEAN UP:

Cured product may be disposed of without restriction. Uncured Isocyanate and resin portions should be mixed together and disposed of in accordance with local regulations. Containers should be disposed of according to local environmental laws and ordinances.

Nukote Polyprime I is difficult to clean up after it has cured. Equipment should be cleaned with environmentally safe solvent, as permitted under local regulations, immediately after use.

WARNING:

This product contains Isocyanate and solvent.

WARRANTIES AND DISCLAIMERS:

Nukote Coating Systems International, a Nevada, USA Corporation warrants that the two components of this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product is dependent upon the proper mixture and application of the components by the applicator. Nukote Coating Systems has no role in the application of the finished polymer other than to manufacture and supply its two components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of plural component equipment and application of plural component materials. There are no warranties that extend beyond the description on the face of this instrument, except when provided in writing, directly by Nukote Coating Systems International and executed under seal by a company officer.