
DESCRIPTION:

Nukote Polyprime II is a two component 1:1 ratio, rapid setting, low temperature curing liquid applied, aromatic urethane polyurea primer suitable for metal substrates. Nukote Polyprime II is easy to apply, sets quickly, and has excellent physical properties. It can also be used in concrete, and masonry

FEATURES:

- Very high solids
- Non Toxic
- Fast setting
- Odorless
- Chemical resistance
- Low temperature curing -10 °F (-12 °C)
- Remains Flexible in Wide Range of Temperatures

TYPICAL USES:

- Low temperature and rapid cure primer for metal and other substrates

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 II spread rate is 400 ft²/ gal at 4 mils (9.9 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 II might not be diluted under any circumstance. Polyprime II should be applied using a 1:1 heated proportioning dispensing system Product should be Pre conditioned to 80 °F (27 °C)

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 °F / 25 °C)	US	Metric
Solids by volume (ASTM D2697)	99%	99%
Volatile organic compounds (ASTM D2369)	0.12lb./gal	5 gm/ lit
Theoretical coverage	400 ft ² /gal @ 4 mils	10m ² / lit @ 100 microns
Specific Gravity of materials (ASTM D792)	A: 9.21, B: 7.85 lbs./gal	A:1.106, B:0.94kg/ liter
Viscosity at 77 °F /25 °C in cps ±10% (ASTM D4878)	A-20, B-20	A-20, B-20
Shelf life @ 77 °F /25 °C	12 - 15 Months	12-15 Months
Flash point Pensky Martin	>150 °F	> 66 °C
Hardness (ASTM D 2240)	65-75	65-75
Tensile Strength (ASTM D 412)	3600-4400 Psi	25-30 Mpa
Elongation ASTM D 412	7%	7%
PROCESSING PROPERTIES (Under standard lab conditions)		
Mix Ratio V/V	1:1	
Pot Life	2 to 3 minutes	
Tack Free	5-10 minutes	
Maximum Recoat time	20-30 minutes	
<i>Properties and values are highly dependent on equipment, spray gun, mix chamber temperature, pressure and related parameters. Variations are possible and expected.</i>		

SURFACE PREPARATION:

Metal:

All surfaces should be clean and free from contamination. The surface should be assessed and treated in accordance with ISO 8504, Abrasive blast the surface to minimum NACE-2/SSPC SP-10/Sa 2.5, as per ISO 8501-1, for a visual assessment of surface cleanliness with an anchor profile of 3 to 4 mils (75 -100 microns). Soluble salts must be removed to an acceptable levels. *Refer to NCSI surface preparation manual for detailed procedures for different types of substrates.*

Concrete

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 or an airless spray system with a static mixer. Allow primer to be tack free 5-10) 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 II 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.

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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.