

DESCRIPTION:

NUKOTE LPC is a 100% solids, two-component, quick spray applied, polyurea hybrid coating.

FEATURES:

- 100% solids with zero VOC
- Performs in constant process temperatures from -40 °F to 250 °F (-40 °C to 120 °C)
- Maintains high physical properties on weathering
- Seamless, resilient, flexible and durable
- Excellent corrosion protection
- High impact and abrasion resistance
- Resistant to many solvents, acids and alkalis (consult NCSI)

TYPICAL USES:

- Lining truck beds
- Repair of existing coatings

COLORS:

Standard color is Black.

PACKAGING:

750 x 750 ml dual cartridges at six sets to a case.

COVERAGE:

One case of six kits (750 x 750 ml) will cover one 100 sq.ft @ 38 mils thickness.(9 sq.m @ 1 mm)

STORAGE:

6 months in unopened containers @ 50- 90°F (10-32 °C)

TECHNICAL DATA (All values @ 77 °F / 25 °C)	US	Metric
Solids by volume (ASTM D2697)	100%	100%
Volatile organic compounds (ASTM D2369)	0 lb./gal	0 gm/ lit
Specific Gravity of materials (ASTM D792)	A: 9.3, B: 8.3 lbs./gal	A: 1.12, B: 0.99 kg/ liter
Viscosity at 77 °F /25 °C in cps ±10% (ASTM D4878)	A-650-800, B-650-800	A-650-800, B-650-800
Shelf life @ 77 °F /25 °C	6 months	6 months
Tensile strength (ASTM D412-C)	2200±200 psi	15±2 MPa
Elongation (ASTM D412-C)	135-185 %	135-185 %
Hardness (ASTM D2240)	53±5 Shore D 97±3 Shore A	53±5 Shore D 97±3 Shore A
Tear strength (ASTM D624) Die C	350±50 pli	60±10 kN/m
Flash point (ASTM D56)	>200 °F	>93 °C

Abrasion Resistance (ASTM D4060)	Excellent	Excellent
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MIXING:

NUKOTE LPC might not be diluted under any circumstance.

SURFACE PREPARATION:**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.

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.*

APPLICATION:

Apply NUKOTE LPC using a pneumatic spray dual cartridge gun. Ensure that the compressed air source is dry, and can provide a constant pressure of 110 psi. Use the static mixer with the air atomizer tip supplied with your cartridges. With 110 psi inlet pressure, set fluid flow to maximum and airflow to the atomizer at 25 psi. Start spraying on a piece of cardboard or other disposable surface until an acceptable spray pattern is achieved. When a spray pattern has been achieved, this should take 2-3 seconds; fan over the object. Working with even passes, building coats to desired thickness. Visually monitor material levels and cease coating work just prior to emptying cartridges to ensure that an even ratio of the material is applied to the surface. Cartridge temperature should be approximately 77 °F before using. NUKOTE LPC can be textured with typical overspray techniques.

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.

LIMITATIONS:

Do not open until ready to use, and store in a sealed container after opening.

WARNING:

Iso component contains polymeric isocyanate requiring fresh air supply respirator, gloves, and protective clothing during application.

CHEMICAL RESISTANCE:

Each Nukote product formulation has varying levels of resistance to specific chemicals. Please review the chemical immersion test data included in the Nukote Test Book for general resistance to specific chemicals at specific concentration levels. Chemical concentrations are complex and when combined with temperatures above ambient levels this complexity increases exponentially. Contact Nukote Technical Personnel for specific recommendations for chemical resistance prior to specifying these products in this application type. Consult with NCSI for more details on product and chemical resistance. The following chart is the results of Polyurea immersed in chemicals and tested as per modified ASTM D 3912.

NUKOTE LPC has good resistance to inorganic bases, acids and hydrocarbon solvents. Fair resistance to oxygenated and chlorinated solvents. Good resistance to hot water up to 180°F.

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.