

**DESCRIPTION**

Nukote BG is a two component (1:1), brush-grade pure polyurea. It adheres well to properly prepared interior or exterior and above and below grade concrete, plywood and metal surfaces. Nukote BG can be applied at temperatures ranging from -10°C to 70°C. It may be applied in a single or in multiple applications. Nukote BG is also relatively insensitive to moisture and temperature allowing applications in various temperatures and humidities.

**FEATURES**

- Expansion joints
- Coats green (vented) concrete
- Can be applied at any thickness
- Good thermal stability
- Good chemical resistance
- Meets USDA criteria
- Excellent low temperature flexibility
- Interior or exterior applications
- Recoatable
- Seamless
- Non-Gassing

**TYPICAL USES**

Nukote BG can be used anywhere high-pressure Nukote polyurea can be applied, but where the convenience of using hand-applied, brush-grade material is preferred.

**COLORS**

Standard medium gray. Custom colors, blended to match any RAL number, are available upon request.

**PACKAGING**

Nukote BG is available in 38 liter kits shipped in plastic pails, 400 liter drum sets shipped in metal drums and 2090 tote sets shipped in hardened plastic, metal reinforced UN approved totes.

**COVERAGE**

Nukote BG may be applied at any rate to achieve any desired thickness. Theoretical coverage for 1 mm thickness is one liter per m<sup>2</sup>.

**SURFACE PREPARATION**

Refer to general guidelines for complete information.

**MIXING**

NOTE: Nukote BG may NOT be diluted under any circumstances. **DO NOT ESTIMATE, proportions are premeasured.**

Using a mechanical mixer, first pre-mix separately Part-A and Part-B base material thoroughly to obtain a uniform color, making sure to scrape the solids from the bottom and sides of the pail.

Pour Part-B into Part-A slowly and while mixing, scrape the sides of the container. Mix for 1-2 minutes. Box the materials. Mix the combined Part-A and Part-B mixture thoroughly until uniform color is obtained.

**PHYSICAL PROPERTIES @ 24°C**

Solids By Volume .....	95%
Volatile Organic Compounds .....	40 g/l
Theoretical Coverage @ 1000 Microns .....	0.95 m <sup>2</sup> /L
Weight Per Liter in Kilograms .....	A:0.59 B:0.51
Viscosity (cps) @ 25 °C .....	-
Viscosity (cps) @ 25 °C .....	-
Shelf Life @ 10°C to 50°C .....	12 to 18 Months
Tensile Strength @ 25°C ASTM D-412 .....	5 to 7 N/mm <sup>2</sup>
Elongation @ 25 °C ASTM D-412 .....	350% to 450%
Hardness (Shore A) ASTM D-2240 .....	70 to 80
Flexibility 3mm mandrel ASTM D-1737 .....	PASS
Tear Strength Die C ASTM D-624 .....	20 to 25 kN/m
Fire Rating UBC .....	Class 2
Flash Point Pensky-Martin .....	>93°C
Service Temperature Range-Dry .....	-20°C to 90°C
Abrasion Resistance ASTM D-4060 .....	<25 mg loss
Taber CS17 1000mg / 1000rev.	

**PROCESSING PROPERTIES @125 MICRONS 24°C/54% RH**

Gel Time (Adjustable) .....	7 to 15 Min.
Tack Free Time (125 microns) .....	180 to 240 Min
Post Cure Time .....	72 Hours
Volume Ratio (A:B) .....	1 to 1
Block Temperature .....	-
Hose Temperatures (A and B) .....	-
Constant Pressure .....	-

**CLARIFICATION OF PROPERTY VALUES**

The physical properties shown in the above table are defined in a range of values to allow for compliance when testing of sprayed films or laboratory draw down films. Results derived from independent testing will fall within the ranges shown if the testing performed complies with the standards utilized for each individual property shown. Results vary dependent on several factors, including: the equipment utilized, product mix ratios, application pressures, application temperatures, ambient temperatures, dry film thickness, age of the sample tested, etc. Results also vary dependent on the film type tested with laboratory draw down films deriving higher properties than sprayed films. Test results from films of at least 30-days in age will provide higher values than results from younger films as chemical cross-linking requires this time period to complete.

## APPLICATION

For best results use a squeegee or notched trowel to spread Nukote BG evenly over the entire substrate.

Nukote BG may be applied at any ambient temperature. Curing time will depend on temperature.

## EQUIPMENT CLEAN UP

Equipment should be cleaned with an environmentally safe, urethane-grade solvent (alcohol free) as permitted under local regulations immediately after use.

## STORAGE

Nukote BG has a shelf life of twelve to eighteen months from date of manufacture in factory sealed containers.

## LIMITATIONS

Do not open until ready to use. Any off ratio mixing of the product will effect the properties and the product may not cure.

## WARNING

This product contains isocyanates and curative material.

## 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.

---

*Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local NCSI representative or visit our website for current technical data and instructions.*

Nukote Coating Systems International, LLC has a general product warranty and project specific warranties. Both warranties are backed by years of industry experience and insurance policies with a multinational insurance company. For information on the general product warranty please see below or contact NCSI for more information. For project specific warranties, these are available on a case-by-case basis. NCSI technicians must sign off on the specification, and in most cases a NCSI technician will be onsite during application to inspect surface preparation and application. For more detailed warranty contact a NCSI office.

**NCSI has a comprehensive training program for our qualified applicators and distributors. Please contact your local NCSI office or representative or visit our website for information on our training program or for current technical data and instructions.**

### LIMITED WARRANTY

**NCSI warrants its products to be free of manufacturing defects. Polyurea and other multi-component products are technically manufactured at the time they are mixed. When mixed in accordance with NCSI guidelines, NCSI warrants the product will meet NCSI's technical specifications. NCSI warrants its products, when properly installed over a properly prepared substrate, will perform as designed and specified.**

Unless otherwise stated in writing, NCSI's sole responsibility shall be to replace the defective product. There are no other warranties by NCSI of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. NCSI shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. NCSI shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature or physical movement of the substrate or structural defects are also excluded from the limited warranty. NCSI reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

### DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are neither guaranteed nor to be construed as a warranty, either expressed or implied.

It is the user's responsibility to satisfy themselves by their own, independent tests, to determine suitability of the product for their own intended use, application and job situation. The user assumes all risk and liability resulting from his use of the product. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a NCSI corporate officer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures.

Test performance results were obtained in a controlled environment and NCSI makes no claim that these tests or any other tests accurately represent all environments.