
DESCRIPTION:

Nukote FR-BG is a single component, water-based, brush/spray grade, ablative coating, designed to prevent vertical or horizontal propagation of fire. This fire-retardant latex coating has been specifically designed for use for touch-up/repair of Nukote FR plural component high pressure spray applications and is both UV stable and weather resistant. It also can be used as a stand-alone fire-retardant coating.

FEATURES:

- Water-based
- Flexible and durable
- UV, and weather resistant
- Solvent free
- No hazardous components

TYPICAL USES:

- Functional in both interior and exterior applications
- Functional in both vertical and horizontal applications
- Spray or brush/roller applications
- For use in repair of damaged Nukote FR application
- For use in stand-alone field application

COLORS:

Dark Olive Green

PACKAGING:

5-gallon / 19-liter pails

COVERAGE:

Calculation for theoretical coverage: 19 ft²/gal @ 60 mils (0.5 m²/liter @ 1.5 mm).

STORAGE:

Twelve (12) months in factory delivered, unopened drums. Nukote FR-BG should be stored between 40°F (4°C) and 90°F (32°C) under protective cover in their original unopened containers. PROTECT FROM FREEZING.

APPLICATION:

Nukote FR-BG is specifically designed for application by airless sprayer, brush or trowel. For best results, apply Nukote FR-BG with material temperatures of 77 °F /25 °C or higher. If necessary, preheat material prior to use.

For best results apply Nukote FR-BG in ambient temperatures between 40°F to 90°F (4°C to 32°C), substrate temperatures should be in the same temperature range. DO NOT THIN

Apply Nukote FR-BG in layers of 30 mils (0.75mm) with a two-lift coat minimum. Allow 2 to 4 hours between lift coats. Achieve total specified DFT of 60 mils (1.5mm) in a single application. In ambient conditions,

Nukote FR-BG reaches tack free condition within 2-4 hours and cure to handle in 48-72 hours. Actual cure time will vary dependent on total DFT and ambient temperatures and humidity. Apply coating to the specified DFT to obtain desired performance.

THEORETICAL CONSUMPTION:

One gallon of Nukote FR-BG covers approximately 19.0 ft² (0.5m²/L) at the recommended dry film thickness of 60 mils (1.5mm). The wet film thickness required to yield the recommended dry film thickness is 80 mils / 2.0 mm.

LIMITATIONS:

Nukote FR-BG is not designed for use in continuous immersion. Application must be performed within appropriate application temperatures.

PROTECT FROM FREEZING

TECHNICAL DATA @ 25 °C 30% rh	US	Metric
Volatile organic compounds (ASTM D2369)	0.05 lb./gal	6 gm/ lit
Theoretical coverage	19 ft ² /gal @ 60 mils	0.50m ² / lit @ 1.5 mm
Recommended Thickness	60 to 120 mils	1.5 to 3 mm
Shelf life @ 77 °F /25 °C	12 months	12 months
Vapor permeability (ASTM E96)		9.32 Perms
Elongation at break (ASTM D412)		600%
Flash point	>212 °F	>100 °C
Flame spread index (ASTM E84)		3
Smoke developed (ASTM E84)		35
Service temperature	-60 °F to 300 °F	-51 °C to 149 °C
Solubility in water		Soluble
Dielectric strength (ASTM D149)		19.0 kV/mm
PROCESSING PROPERTIES @ 25 °C 30% rh		
Touch dry	2 hours	
Recoat time	2 to 4 hours	
Dry to handle	48 hours	
Full cure time	21 days	

WARRANTIES AND DISCLAIMERS:

Nukote Coating Systems International, a Nevada, USA Corporation warrants that 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.