

## Nitra-Core™ Technical Data Sheet

Nitra-Core is a patent pending spray applied vapor barrier that is comprised of an elastic, water-based, co-polymer modified asphaltic nitrile latex, in addition to other proprietary compounds. This chemically resistant barrier is typically installed at 40 mils thickness uniformly above the Nitra-Base layer to provide a monolithic and seamless system. Nitra-Core has exceptional bonding to a wide variety of substrates including green concrete. This barrier will build up to a specific thickness in a single application through multiple passes, allowing for easy installation around penetrations, uneven surfaces and oddly shaped areas.

### Nitra-Core General Properties

Properties	Nitra-Core
Application to Nitra-Base	40 mils (23 ft <sup>2</sup> /gal)

### Typical Uncured Properties

Properties	Test Method	Nitra-Core
Specific Gravity	ASTM D 244	1.0
Brookfield Viscosity	ASTM D 2196	75 – 90 centipoises
pH	Oakton	10-13
Residue Content	ASTM D 2939	62 – 65%
Color		Brown to Black
Demulsibility	ASTM D 6936	35 – 40%
Non-Toxic		No Solvent
Shelf Life		6 months

### Typical Cured Properties with Nitra-Base

Properties	Value	Nitra-Core
TCE Diffusion Coefficient	Land Science Internal Method	On going
Benzene Diffusion Coefficient	Land Science Internal Method	On going

### Packaging

Properties	Value
Drums	55 gal
Totes	275 gal



# Nitra-Base™ Technical Data Sheet

Nitra-Base is comprised of a gray high strength HDPE membrane that is thermally bonded to a polypropylene geotextile. The Nitra-Base layer is installed as a base layer prior to Nitra-Core spray application with the HDPE side facing up.

## Nitra-Base General Properties

Properties	Test Method	Nitra-Base
Film Thickness		18 mil
Color		Gray HDPE - White Geotextile
Weight	ASTM D751 - 06	6.8 oz/yd <sup>2</sup>
Tensile Strength (grab)	ASTM D751 - 06	CD - 186.8 lbf
		MD - 53.4 lbf
Tear Strength (Trapezoidal)	ASTM D751 - 06	CD - 36.7 lbf
		MD - 28.0 lbf
Puncture Resistance	ASTM D4833 - 07	61.2 lbf
Life Expectancy	ASTM E 154 - 93	Indefinite
Elongation	ASTM D751 - 06	CD - 72.1%
		MD - 49.6%
Chemical Resistance		Excellent
Packaging		102" x 150' Roll

# Nitra-Bond™ Technical Data Sheet

Nitra-Bond is comprised of a high strength woven HDPE membrane that is thermally bonded to a polypropylene geotextile. The Nitra-Bond layer is installed as a protection course over the Nitra-Base and Nitra-Core layers with the geotextile side facing up. The Nitra-Bond layer also provides an excellent substrate and friction surface for concrete to adhere to.

## Nitra-Bond General Properties

Properties	Test Method	Nitra-Bond
Film Thickness		23 mil
Color		Clear HDPE - White geotextile
Weight	ASTM D751 - 06	6.8 oz/yd <sup>2</sup>
Tensile Strength (grab)	ASTM D751 - 06	CD - 270.5 lbf MD - 350.9 lbf
Tear Strength (Trapezoidal)	ASTM D751 - 06	CD - 48.3 lbf MD - 44.4 lbf
Puncture Resistance	ASTM D4833 - 07	98.6 lbf
Life Expectancy	ASTM E 154 - 93	Indefinite
Elongation	ASTM D751 - 06	CD - 26.0% MD - 32.6%
Chemical Resistance		Excellent
Packaging		102" x 150'