

SUBSTRATUM II (4R AND 4F)

Polyurethane Rigid Foam System

Description

Substratum II is a two-component polyurethane rigid foam system. This product is specifically designed for concrete lifting, settled pavement, stabilizing weak soil, cavity filling, and encapsulating various voids.

Substratum II is inherently hydrophobic and is capable of being directly injected into water. Due to the hydrophobic nature, this product is excellent for lifting and/or stabilizing in areas with a high moisture content. The low viscosity of the system allows for easy penetration into soil and displacing water without losing product integrity as it stabilizes and lifts.

Storage and Handling

Both Component A (isocyanate) and Component B (polyol) – storage area should be maintained between 75° F – 95° F. Containers must be tightly closed as a protection from moisture and foreign material.

Typical Physical Properties

Property	Component A	Component B
Appearance	Amber liquid	Dark brown liquid
Viscosity, cps @77° F	250 ± 50	650 ± 100
Specific gravity	120 ± 0.05	1.07 ± 0.05
Mix ratio, by weight	55	45
Mix ratio, by volume	1	1
Cured Material	Test Method	Result
Core (Free Rise) Density, pcf	ASTM D-1622	4.0
Closed Cell Content, %	ASTM D-6226	>90
Dimensional Stability @158° F dry %	ASTM D-2126	<2
Tensile Strength, psi	ASTM D-1623	110
Tensile Modulus, psi	ASTM D-1623	1,800
Compressive Strength, psi	ASTM D-1621	65
Compressive Modulus, psi	ASTM D-1621	1,500
Shelf Life		6-months

Data generated under controlled laboratory conditions. Actual performance may vary due to environmental conditions.

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