
DESCRIPTION:

Nukote SPU SJ 250, 375, 375-H are two-component, closed cell, rigid, slab jacking structural foams designed to augment the lifting force underneath a foundation or substrate providing a workable solution for settling problems with foundations, roadways, sidewalks and slabs.

Nukote SPU SJ 250, 375, 375-H have reaction profiles that flow and penetrate voids that cause foundations and slabs to settle as they age. Once inside the void, the foam is designed to set up quickly and generate a stability and lift for the foundation or slab.

Nukote SPU SJ 375-H is specifically formulated as Hydrophobic for applications where injection sites have standing water. The unique characteristics of 375-H allow it to withstand the watery environment with minimal effect on foam cell structure.

These injection grade foams compress when injected below ground into restricted rise, so true application rates are very subject to field conditions.

FEATURES:

- Fast reactivity and cure time resulting in almost immediate return-to-service time
- Easy to apply
- Reduced down time

TYPICAL USES:

- Filling voids
- Undersealing concrete slabs and foundations
- Concrete slab lifting and stabilizing
- Compacting of grouting soil

PACKAGING:

1000-pound (3800-liter) drum sets.

COVERAGE:

Free rise yield is approx 250 cubic feet per kit - which may be ~150 to 200 cubic feet installed.

STORAGE:

Six to twelve months in factory delivered, unopened drums. Store on pallets and keep away from extreme heat, freezing direct sunlight, and moisture. Storage at higher temperature may alter the reactivity of the product and build up pressure in the storage container.

Recommended storage temperature 65-85 °F (18-29 °C)

TECHNICAL DATA (All values @ 77 °F / 25 °C)	US	Metric
Specific Gravity of materials (ASTM D792)	A: 10.18, B: 9.83 lbs./gal	A: 1.22, B: 1.18 kg/ liter
Viscosity at 77 °F /25 °C in cps ±10% (ASTM D4878)	A-150-200, B-500-800	A-150-200, B-500-800
Core density	250: 2.55-2.65 lb/ft ³	250: 40.8-42.4 Kg/m ³
	375: 3.75-4.0 lb/ft ³	375: 60.1-64 Kg/m ³
	375-H: 4.0 lb/ft ³	375-H: 64 Kg/m ³
Shelf life @ 77 °F /25 °C	A: 12 months	A: 12 months
	B: 6 months	B: 6 months
Compressive strength (ASTM D 1621)	250: 25-35 psi	250: 0.17- 0.24 Mpa
	375: 65-75 psi	375: 0.45-0.52 Mpa
	375-H: 55-65 psi	375-H: 0.38-0.45 Mpa
PROCESSING PROPERTIES (under standard test conditions)		
Mixing ratio	1:1	
Cream time	20 to 25 seconds	
Gel time	35-45 seconds	
Tack free time (DFT & Temperature dependent)	60 seconds	

MIXING:

Nukote SPU SJ might not be diluted under any circumstance. Use appropriate solvent for purge line and flushing of equipment and if spraying stops for a period of time in excess of the pot life of the material. Thoroughly mix part B resin material with air driven power equipment until a homogeneous mixture and color is obtained.

APPLICATION:

Recommended Equipment Settings (Varies by work environment):

Static Pressure (A&B): 1000-1400 psi
 Dynamic Pressure (A&B): 1000 psi minimum
 Primary Heaters (A&B): 100-130OF
 Hose Heaters: 100-130OF
 Dispensing Ratio 1:1 by volume

When changing between different resin systems, flush adequate amount of material through the gun to clear hose lines of previous material. Application of slab-jacking foam requires specialized gun adapter parts.

EQUIPMENT CLEAN UP:

Cured product may be disposed of without any restrictions. The uncured Isocyanate and resin portions should be mixed together and disposed of in a normal manner. “drip-free” 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. Adding a nitrogen blanket is strongly recommended for the ‘A’ component when storing after opening. All applications to exterior surfaces should be over coated with a suitable elastomeric top coat. Combustible under many fire conditions. Protect with a UL rated 15 minutes thermal barrier top coat on all applications on interior walls and ceilings

WARNING:

This product contains Isocyanate and curatives. Refer SDS for further details

WARRANTIES AND DISCLAIMERS:

Nukote Coating Systems, LLC has no role in the manufacture of the finished polymer other than to 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. Nukote Coating Systems International, a Nevada Corporation, warrants only 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. 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.