

HPP - 90

PRODUCT DESCRIPTION

NeoChem HPP - 90 is a two component, high-performance, semi-rigid Polyurea used for filling horizontally placed control and construction joints in concrete slabs. NC HPP - 90 is 100% solids, VOC free, rapid setting formula, provides extended shave window, excellent UV resistance, and no sensitivity to moisture. NC HPP - 90 supports and protects joint shoulders against heavy loads, wheel traffic, reduces spalling, chipping, and breaking while sealing out moisture and dirt.

FEATURES & BENEFITS

- Fast Setting
- No Odor
- Moisture insensitive
- Protects joint against contamination from dirt and moisture
- Protects joint shoulders and intersections against damage
- Excellent UV resistance
- 100% Solids / no VOC's
- Installation in coolers and freezers down to -25 Fahrenheit
- Acceptable in USDA inspected facilities
- Extended shave-time window
- ACI 302 compliant

RECOMMENDED USES

- New Concrete
- Polished Concrete
- Existing Concrete
- Industrial / Manufacturing
- Decorative Concrete
- Dyed Concrete
- Warehousing
- Commercial / Retail

TECHNICAL DATA

Test	Test Method	Results
Shore A Hardness	ASTM D2240	91
Viscosity	Base 2400 cps	Activator 1200 cps
Tensile Strength	ASTM D412	1,642 psi
Elongation	ASTM D412	242%
Adhesion to Concrete	ASTM D4541	275 psi
Solids Content	By Volume	100%
Solids Content	By Weight	100%
Mix Ratio	By Volume	1:1
VOC	EPA Method 24	10 g/L
Gel Time	100 gram mass	45 seconds
Tack Free	@ 72°F (22°C)	8 - 15 minutes
Shave Ready	@ 72°F (22°C)	45 minutes – 8 hours
Traffic Ready	@ 72°F (22°C)	Light Traffic: 1 hour Heavy Traffic: 2 hours

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PREPARATION & INSTALLATION

Read all product information prior to use. Do not use NeoChem HPP - 90 as an expansion joint sealant. Not recommended beneath hard flooring and coatings.

Application Temperature Range

NeoChem HPP - 90 can be applied at surface temperatures ranging from -25°F (-32°C) to 120°F (49°C). HPP - 90 material temperature, in product container or pump reservoir, should be no lower than 65°F for proper installation viscosity and no higher than 85°F or rapid curing may occur

Application Equipment

1:1 ratio dual component battery powered, manual gun, or power dispensing pump

Joint Preparation

Concrete should be a minimum of 28 days old – 90 days or more is preferred in order to provide adequate time for concrete to shrink. Joints must be adequately prepared, clean, dry, and free of all sealers, bond breakers, and contaminants such as dirt, dust, grease, paint, oil and other foreign materials to ensure best adhesion to concrete. Preferred methods of joint preparation include using a dustless joint saw with a diamond blade designed for joint fill preparation. Remove all residues and debris using a HEPA filtered vacuum cleaner or oil-free air compressor. If staining of joint shoulder from material overage is a concern, take appropriate steps to protect.

Mixing

NeoChem HPP - 90 mix ratio is 1 part A-ISO to 1 part B-Polyol by volume. Material in pails should be mixed before use at low speed using a power drill and low viscosity mixing paddle to ensure material is thoroughly mixed without whipping in air before application. HPP is tintable with NeoTint pigment additive – 1 NeoTint pigment pack will make 10 gallons of mixed HPP. Mix HPP Part B Polyol with 1 NeoTint pigment pack prior to pouring into Part B holding container on Polyurea Pump. Pre-filled cartridges should be shaken for two minutes to ensure material is thoroughly mixed before use. Follow specific instructions on cartridge before use.

Dispensing and Filling

Use a ½" diameter static mixer with 32 elements for proper mixing and dispensing. NeoChem HPP – 90 should be installed in the joint to full depth. Joints should be slightly overfilled and shaved flush with surrounding concrete joint edges once completely cured. Take care to not trap air bubbles when filling the joints.

Shaving

NeoChem HPP - 90 may be shaved as soon as 20 minutes, depending on surface and air temperature conditions. Always use a sharp blade when shaving joints flush to ensure the best finish.

APPROXIMATE COVERAGE

Approximate coverage estimates in linear ft. /gal (liner m/L). Waste is not considered in the chart

Joint Width	1.5 " (38 mm) Depth	2 " (51 mm) Depth	2.5 " (63 mm) Depth
1/8" (3.2 mm)	103' (8.2 m)	77' (6.1 m)	62' (4.9 m)
3/16" (4.8 mm)	68' (5.4 m)	51' (4.1 m)	41' (3.3 m)
1/4" (6.4 mm)	51' (4.1 m)	39' (3.1 m)	31' (2.5 m)
3/8" (9.5 mm)	34' (2.7 m)	26' (2.1 m)	21' (1.7 m)



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MAINTENANCE

HPP-90 may be damaged by high point loads and sharp objects. Exercise care in order to prevent damage. Repairs may be completed, if necessary, by a professional installer. Please contact our office for guidance.

PACKAGING

5 Gal (3.8 L) Part A

5 Gal (3.8 L) Part B

TECHNICAL ASSISTANCE

Corporate Office
NEOCHEM INFUSION TECHNOLOGY, LLC
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CLEAN UP AND DISPOSAL

NeoChem HPP - 90 can be cleaned up using NMP, Xylene, MEK or other mild solvents; follow all solvent manufacturers' safety instructions.

SHELF LIFE AND STORAGE

store NC HPP - 90 indoors in a dry place with humidity below 65% and ambient temperatures between 55°F to 85°F (13°C to 29°C)

TECHNICAL & SAFETY LITERATURE

To acquire additional information or technical and safety literature contact our office or visit our website: WWW.NCINFUSION.COM

LIMITED WARRANTY

NeoChem warrants this product to be free from defects in the material(s) that affect its performance for a period of 1 year (from date of purchase). NeoChem will replace at no charge the quantity of the Product that NeoChem determines has failed to perform as the sole and exclusive remedy for any breach of this warranty and/or any other defect or failure of the Product. Proof of purchase is required. Cost of labor for application of any product specifically is excluded.

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