



CE 715^{PNS} Polymer Nosing System

THREE COMPONENT, 100 % SOLIDS POLYMER MORTAR

ITEM NUMBER CE 715 PNS

DESCRIPTION

CE 715 PNS is a three component, moisture tolerant, multi-purpose, high strength, semi-flexible, elastomeric concrete repair system. The system combines a high quality epoxy resin and curing agents with an engineered blend of graded aggregates.

WHERE TO USE

Specifically engineered for the construction or repair of expansion and construction joints on bridges headers and parking decks. Also designed to be used without aggregate as a sealant primer or as a protective coating. Excellent concrete repair mortar for cracks and spalls.

ADVANTAGES

- Abrasion and impact resistant
- Semi-flexible: long term solution for pavement repairs
- Repairs damaged expansion and construction joints
- Made in America
- Moisture Tolerant and high compressive strength
- Color: black
- Chemical Resistant: resists commonly used jobsite chemicals
- Neat Binder Components: convenient 1:1 mix ratio by volume

COVERAGE

Approximately 50 to 200 sq. per gallon depending on the porosity of the surface substrate.

PACKAGING

- 0.50 cu ft. (.014 cu m) Kit:
- 1.0 cu. ft. (0.28 cu m) Kit

Shelf Life: 2 years in original unopened container

Storage Conditions: Store at 40° F – 95° F (5° C – 35° C).

Condition material to 65° F – 85° F (18° C – 29° C) before using

TECHNICAL DATA

Shelf Life:	2 years in original unopened container.
Storage Conditions:	40°F – 95°F (5°C – 35°C).
Condition material to:	65°F – 85°F (18°C – 29°C) before using.
Binder Properties	
Mix Ratio	1:1 by volume
Viscosity	2,000 cps @ 77°F
Gel Time (60 g mass)	15 minutes
Tack Free Time (73°F or 23°C)	3 to 5 hours (standard); 2 to 3 hours (fast)
Tensile Properties (ASTM D638), 7-day cure	
Tensile Strength:	2,000 psi (13.8 MPa)
Tensile Elongation:	45%
Bond Strength (ASTM C882)	
2-day cure:	2,000 psi (13.8 MPa)
14-day cure:	2,500 psi (17.2 MPa)
Compressive Properties (ASTM D695), 7-day cure	
Compressive Strength:	5,000 psi (34.5 MPa)
Compressive Modulus:	90,000 psi (620 MPa)
Mortar Properties	
Compressive Strength (ASTM C579)	
3-hour cure:	1,500 psi (10.3 MPa)



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	24-hour cure:	5,000 psi (34.5 MPa)
Compressive Stress (Tex-618-J)		4,000 psi (27.6 MPa)
Bond Strength (ASTM C1583/ACI 503R)		300 psi (2.0 MPa) 100% concrete failure
Wet Bond Strength (Tex-618-J)		450 psi (3.1 MPa)
Shrinkage on Cure (ASTM D2566)		0.2%
Resilience (Tex-618-J)		95%
Thermal Compatibility (ASTM C884)		Pass
Water Absorption (ASTM D570)		0.2% (24 hr.)
Chloride Ion Permeability (AASHTO T277)		0.0 coulomb

APPLICATION

Surface Preparation:

- Saw cut approx. ½ in / .2 cm deep around perimeter of area to be patched and remove all deteriorated and unsound concrete with chipping hammers not to exceed 30#.
- Thoroughly clean repair area and exposed reinforcing steel by sandblasting to white metal finish. Vacuum all dust and loose particles from area.

Mixing:

- Mix complete units only
- Pre-mix each liquid component thoroughly
- Pour components A and B into pail and mix thoroughly for 3 minutes with a Jiffy type mixer on low-speed (300 rpm) until material is of uniform consistency. Keep mixer at bottom of pail to avoid introducing air.
- Slowly add component C (aggregate) to mixed liquid components. Mix thoroughly until all aggregate is wetted out.

Patching Concrete:

Prime patch area with mixed components A and B with brush or roller. Immediately place patch

CLEAN UP

Collect with absorbent material. Flush area with water. Dispose of in accordance with local, state and federal disposal regulations. Uncured material can be removed with CCM Natural Clean or other approved solvent. Cured material can only be removed mechanically.

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