FasTrac CE715 PNS

POLYMER NOSING SYSTEM



Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac CE715 PNS is a three component, moisture tolerant, multi-purpose, high strength, semi-flexible, elastomeric repair system. The system combines a high-quality epoxy resin and curing agents with an engineered blend of graded aggregates for header / joint repairs on bridge decks and similar structures. FasTrac CE715 PNS meets the requirements of ASTM C 881 and AASHTO M235 Type III, Classes B and C.

APPLICATIONS

- Bridge Deck Joints
- Airport Runway and Taxiway Joints
- Parking Deck Joints
- Header Repairs

FEATURES

- Elastomeric, Semi Flexible
- Impact Resistant
- Moisture Tolerant
- Chemical Resistant

SURFACE PREPARATION

Concrete surfaces should be a minimum 50°F (10°C) at time of application. Roughen concrete surfaces to a Concrete Surface Profile (CSP) of 5 or greater in accordance with ICRI Technical Guideline 310.2R. Blow out all dust, debris, and loose material. Best performance is achieved when surfaces are completely dry. Steel surfaces should be sandblasted to an SSPC – SP6 finish and wiped clean.

MIXING

Pre-condition Components A and B to between 65°F and 85°F (18.3°C and 29.3°C). Pour all of Components A and B into pail or mixer and mix for approximately 3 minutes. Add all of Component C one bag at time and mix until aggregate is fully wetted and no dry pockets remain. Do not whip air into components during mixing. Use immediately after mixing.

INSTALLATION

Pour into the repair area and level or screed as necessary. A Fastrac Finishing Aid or solvent coat on tools will facilitate finishing and lessen drag.

CURING

Product is self-curing. Do not add solvents. Protect from freezing temperatures, rain and traffic until minimum strength requirements are achieved.

CLEAN UP

All surfaces, tools and equipment may be cleaned with FasTrac Finishing Aid or a solvent based cleaner prior to material setting.

PACKAGING AND YIELD

Three component kit packaged in 0.5 cubic foot unit (0.014 cubic meter) with 1 bag aggregate, 1.0 cubic foot unit (0.028 cubic meter) with 2 bags of aggregate and 5 cubic foot unit (0.14 cubic meter) with 10 bags aggregate.

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SHELF LIFE AND STORAGE

1 year shelf life when stored in dry, weatherproof conditions. Storage temperatures 40°F to 95°F (4.4°C to 35°C).

TYPICAL PROPERTIES at 75° F (23.8° C)	
TEST METHOD	**RESULTS**
BINDER PROPERTIES	
Mix Ratio	3-Component Product
ASTM D2393-86 Viscosity	2,000 cps
ASTM C881 Gel Time (60 grams)	15 minutes
ASTM D1640 Tack Free Time	≤ 3 hours
ASTM D2240 Shore D Hardness	60-80
ASTM C501 Wear Index	≤ 1.0
ASTM D638 Tensile Properties	
Tensile Strength	≥ 2,000 psi (13.7 MPa)
Tensile Elongation	40%-60%
ASTM C882 Bond Strength	
2-Day Cure	≥ 2,000 psi (13.7 MPa)
14-Day Cure	≥ 2,500 psi (17.2 MPa)
ASTM D695 Compressive Modulus	≤ 90,000 psi (620 MPa)
MORTAR PROPERTIES	
ASTM C1583/ACI 503R Tensile Bond Strength	300 psi (2.0 MPa)
ASTM D2566 Shrinkage on Cure	≤ 0.2%
ASTM C884 Thermal Compatibility	Pass
AASHTO T277 Chloride Ion Permeability	0 coulombs
ASTM C579 Compressive Strength	
3-Hour Cure	≥ 1,500 psi (10.3 MPa)
24-Hour Cure	≥ 5,000 psi (34.5 MPa)
7-Day Cure	≥ 5,000 psi (34.5 MPa)

CURE TIME

TEMPERATURE

	60°F (15.5°C)	65°F (18.3°C)	70°F (23.8°C)	75°F (23.8°C)	80°F (26.6°C)	85°F (29.4°C)	90°F (32°C)	95° (35°C)
Cure Time (Standard)	5 Hours	4 Hours	3.5 Hours	3 Hours	2 Hours	1.5 Hours	1 Hours	1 Hours
Cure Time (Accelerated)	3 Hours	2.5 Hours	2 Hours	1.5 Hours	1 Hours	1 Hours	1 Hours	1 Hours

HEALTH AND SAFETY INFORMATION

Product contains epoxy resin and amines. Wear proper PPE when using this product, including gloves, eye and skin protection and NIOSH / MSHA approved respirator or dust mask. Read SDS thoroughly before use. Prop 65: This product contains chemicals known by the state of California to cause cancer.

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