



INNOVATIVE PRODUCTS SPECIFICALLY DESIGNED FOR STEEL AND ALUMINUM PLANTS

**Achieve the Fastest Return to Service, Highest Temperature Resistance and Compressive Strengths in the Industry.
Exceptional Performance Reliability.**

FASTEST RETURN TO SERVICE
HIGHEST TEMPERATURE RESISTANCE
HIGHEST COMPRESSIVE STRENGTHS

Scan this QR code for
a comparison chart
of these products.



NEW! METALLIC GROUT

Metallic Grout

The NEW Five Star® Metallic Grout is engineered for high impact and high-temperature applications, specifically those in steel and aluminum plants. This high-performance, non-shrink grout features Air Release technology and positive expansion per ASTM C827. Its metallic aggregate base increases tensile strength and enhances impact resistance. It is non-segregating, non-bleeding, non-rusting, and non-staining, ensuring maximum uniformity and permanent support for machinery.

Key Specifications

Maximum In-Service Temperature: 400°F (204°C)

Compressive Strength:

- **Flowable:**
5,000 psi (34 MPa) 1 day,
9,000 psi (62 MPa) 7 days,
11,000 psi (76 MPa) 28 days
- **Fluid:**
4,000 psi (28 MPa) 1 day,
8,000 psi (55 MPa) 7 days,
10,000 psi (69 MPa) 28 days

Tensile Strength: 550 psi (4 MPa) 28 days

Working Time: 45 minutes at 70°F (21°C)

Pour Depths: ½"-6" (13-150 mm)

Uses:

- Compressors, turbines, generators
- Pump bases and drive motors
- Stamping and grinding equipment
- Roller mills, crushers, pulverizers

Hybrid Grout



A high-strength, high-temperature resistant, non-metallic cementitious grout for diverse industrial applications.

Max In-Service Temperature: 600°F (316°C)

Compressive Strength at 72°F (22°C):

- 4,000 psi (28 MPa) 8 hrs
- 7,500 psi (52 MPa) 1 day
- 13,000 psi (90 MPa) 7 days
- 16,500 psi (114 MPa) 28 days

Working Time: 30 minutes at 70°F (21°C)

Pour Depths: ¾" - 6" (19 mm - 150 mm)



HTR: Hot, Tough, and Rugged

HTR stands for High-Temperature Resistant, but at Five Star Products, we know it means Hot, Tough, and Rugged! Our products, capable of withstanding temperatures up to 2400°F, are designed to thrive in extreme conditions, delivering exceptional performance where it matters most.

HTR Grout



A fast-setting, high-temperature resistant, non-metallic, cementitious grout.

Uses:

- Rapid turnaround during shutdowns
- Coker, kiln, and foundry applications

Max In-Service Temperature:

- 1,000°F (538°C) 24 hrs
- 2,400°F (1,316°C) 7 days

Compressive Strength at 70°F (21°C):

- 4,000 psi (28 MPa) 1 day
- 5,500 psi (38 MPa) 7 days
- 6,500 psi (45 MPa) 28 days

Working Time: 20 min at 70°F (21°C)

Pour Depth: 1"-3" (25-76 mm)

Structural Concrete HTR ES



An extended working time, high-temp resistant structural concrete rehab and repair product, suitable for deep pours.

Max In-Service Temperature:

- 1,000°F (538°C) 24 hrs
- 2,400°F (1,316°C) 7 days

Compressive Strength at 70°F (21°C):

- 4,500 psi (31 MPa) 1 day
- 5,500 psi (38 MPa) 7 day
- 7,000 psi (48 MPa) 28 days

Working Time: 90 min at 70°F (21°C)

Pour Depths: 2"-4" (51-102 mm)

Bulk Bag: Available in a 3,000 lb (1,361 kg) bag

Structural Concrete HTR



A rapid strength gain, high-temperature resistance structural concrete rehab and repair product, suitable for deep pours.

Max In-Service Temperature:

- 1,000°F (538°C) 6 hrs
- 2,400°F (1,316°C) 7 days

Compressive Strength :

- **At 70°F (21°C) :**
 - 2,500 psi (17 MPa) 6 hrs
 - 4,500 psi (31 MPa) 1 day
 - 5,500 psi (38 MPa) 7 day
 - 7,000 psi (5 MPa) 28 days

Working Time: 30 min at 70°F (21°C)

Pour Depths: 2"-4" (51-102 mm)

Structural Concrete HTR Shotcrete



A fast-setting, high-temperature resistant structural concrete rehab and repair product for large vertical and overhead applications.

Max In-Service Temperature:

- 1,000°F (538°C) 3 hrs
- 2,400°F (1,316°C) 7 days

Compressive Strength at 70°F (21°C):

- 2,500 psi (17 MPa) 3 hrs
- 4,500 psi (31 MPa) 1 day
- 7,000 psi (48 MPa) 28 days

Working Time: 20 min at 70°F (21°C)

Pour Depth: 2"-4" (51-102 mm)

Structural Concrete HTR Line Uses:

- Pourable fire brick equivalent
- Coker, kiln, and foundry repairs
- Foundation rebuilds



FIVE STAR

XP 230

Epoxy Grout

**Today's Fast-Paced World Demands Fast Solutions.
XP 230 Takes Speed to a Whole New Level.**

Epoxy Grout No Other Can Match

When it comes to high-performance epoxy grout, there's simply no competition for XP 230 Epoxy Grout. This versatile product sets new industry records for speed and strength.

This industry-leading high-performance solution is engineered for demanding applications where superior compressive strengths and chemical resistance are paramount. Ideal for maintenance shutdowns and new projects, this grout boasts exceptional durability, maintaining structural integrity even under the most extreme conditions for a wide variety of construction projects.

Max In-Service Temperature: 250°F (121°C)

Achieve remarkable compressive strength:

- 4,000 psi (28 MPa) 3 hrs
- 15,000 psi (103 MPa) 12 hrs
- 23,000 psi (159 MPa) 28 days
- 27,000 psi (186 MPa) post-cured at 140°F (60°C)

Tensile strength: 2,500 psi (17 MPa) per ASTM C307

Working Time: 45 minutes at 70°F (21°C)

Pour Depths: 2"-18" (51 mm-457 mm)

USES:

- Precision equipment grouting
- Foundation rebuilds
- Floor repair overlays
- High-load applications



**Install XP 230
in three easy steps.**

- 1 Follow the epoxy grout method for mixing and placement known to all contractors. No new knowledge is required.
- 2 Take advantage of XP 230's **long 45-minute working time.**
- 3 Expect XP 230 to flow as quickly and perform as well as products with lower compressive strengths. It completed the ASTM C1339 flow test in just 1 minute and 34 seconds.



Five Star Product Technologies

Precision Epoxy Grouts
Precision Cementitious Grouts
Construction Grade Cementitious Grout

Concrete Rehab & Repair Products
Marine/Wet Environment Products
NQA-1 Nuclear Safety Related Products



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