



FIVE STAR



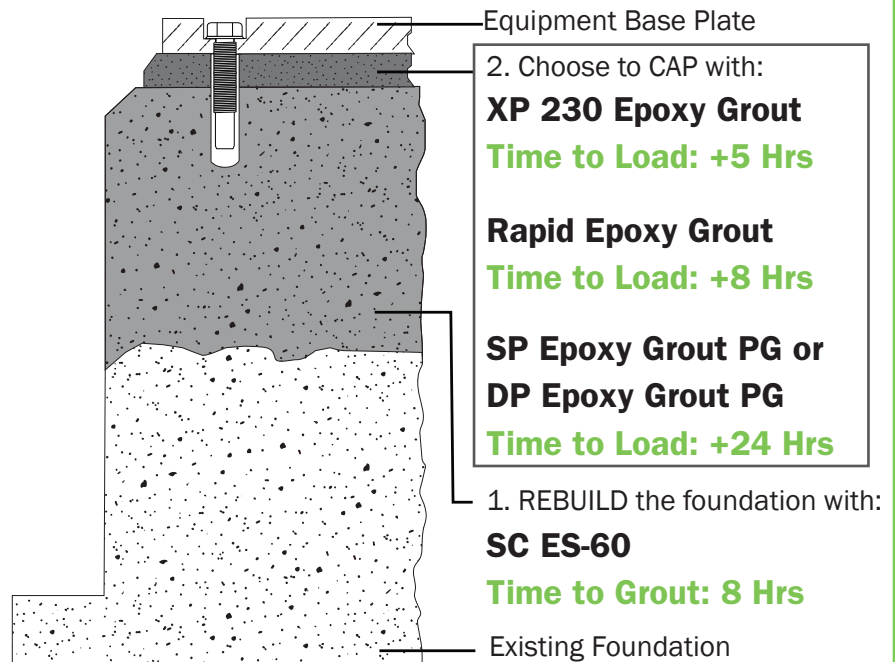
**RAPID
RETURN TO
SERVICE
SYSTEM**

MULTI-LIFT FOUNDATION SUPPORTING **DYNAMIC LOAD**

- 1. **Rebuild** the foundation with Structural Concrete ES-60.
- 2. **Cap** the rebuilt foundation with the Five Star epoxy grout product (**XP 230 Epoxy Grout, Rapid Epoxy Grout, SP Epoxy Grout PG, or DP Epoxy Grout PG**) that provides the ideal turnaround time required for your project.
- Placement versatility:
Pour or Pump
- Working Time:
30-90 Minutes
- Custom Composition:
Extend with coarse aggregate
- Optimal Effective Bearing Area:
Achieve 95%+ Effective Bearing Area
- To ensure project success, Five Star Products extends our expertise in the form of:

Specification Design Guidance
Application Mock-Ups
Product Selection Guidance
On-Site Support
Pre-Grout Meetings
Product Demos
Project Pricing
Installer Training

Return to Service in as Little as 13 Hours



Experience unparalleled efficiency with **Five Star Products' Rapid Return to Service Systems**. Specially designed for quick foundation repairs, our systems ensure a rapid rebuild without compromising long-term durability. Our precision non-shrink epoxy grout provides reliable support for all types of rotating machinery, ensuring optimal operational stability. With a variety of capping options to suit different compressive strength needs and timelines, our systems are versatile and adaptable to your specific requirements.

Developed for early strength gain, our innovative systems significantly reduce downtime, allowing for the industry's quickest return to service. Choose Five Star Products not only for speedy repairs but also for lasting quality, exceptional stability, and significant cost savings.



RAPID RETURN TO SERVICE SYSTEM

PRECISION NON-SHRINK MULTI-LIFT FOUNDATION SUPPORTING DYNAMIC LOAD



Structural Concrete ES-60

4,000 psi (28 MPa) Compressive Strength @ 70 °F (21 °C)
ASTM C 942 (C109 restrained) - 90 min. working time

Time to
Grout
8 Hrs

CAPPING OPTIONS:

XP 230 Epoxy Grout



* ASTM C
579 B

45 min.
working time

Compressive
Strength @
70°F (21°C)

4,000 psi
(28 MPa)
5 hours

Min. Depth
of Pour

2"
(51 mm)

Max. Depth
of Pour/
Volume

18" (457 mm)
or
volumes up to
80 ft³ (2.2 m³)

Time to
Load

+5 Hrs

Return to
Service
Timeframe

=13 Hrs

Rapid Epoxy Grout



ASTM C
579 B

30 min.
working time

8,000 psi
(55 MPa)
8 hours

½"
(13 mm)

3" (75 mm)
or
volumes up to
2½ ft³ (70.8 L)

+8 Hrs

=16 Hrs

XP 230 Epoxy Grout



ASTM C
579 B

45 min.
working time

15,000 psi
(103 MPa)
@ 70 °F (21 °C),
19,000 psi
(131 MPa)
@ 90 °F (32 °C)
12 hours

2"
(51 mm)

18" (457 mm)
or
volumes up to
80 ft³ (2.2 m³)

+12 Hrs

=20 Hrs

SP Epoxy Grout PG



ASTM C
579 B

30 min.
working time

16,500 psi
(114 MPa)
24 hours

1 "
(25 mm)

4" (100 mm), or
volumes up to
12 ft³ (339 L)

+24 Hrs

=32 Hrs

DP Epoxy Grout PG



ASTM C
579 B

75 min.
working time

9,000 psi
(62 MPa)
24 hours

½"
(13 mm)

6" (150 mm)
or
volumes up to
50 ft³ (1.4 m³)

+24 Hrs

=32 Hrs

* ASTM C 579 Method B Load Rate II: 0.1 to 0.125 inches per minute crosshead speed x specimen height (2 inches) = 0.20 to 0.25 inches per minute for a 2-inch epoxy grout cube

Higher ambient temperatures will accelerate strength development. For placement guidelines and typical properties, please refer to the TDS on our website: [fivestarproducts.com](https://www.fivestarproducts.com). The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown may result. Test methods are modified where applicable.



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