

GP 04-10-02	Grouting for Machinery	March 2002
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Grouting for Machinery

GP 04-10-02

Scope

[I] This Global Practice (GP) covers grouting of machinery.

[I] An asterisk (*) indicates that a decision by the Owner's Engineer is required or that additional information is furnished by the Owner's Engineer.

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1. Required References

This Section lists Practices and Standards that are referenced and assumed to be a part of this document. Unless otherwise specified herein, use the latest edition.

1.1. ACI–American Concrete Institute

ACI 305R	Hot Weather Concreting
ACI 306R	Cold Weather Concreting
ACI 503R	Use of Epoxy Compounds with Concrete

1.2. API–American Petroleum Institute

API RP 686	Recommended Practices for Machinery Installation and Installation Design
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1.3. ASTM–American Society for Testing and Materials

ASTM C 33	Standard Specification for Concrete Aggregates
ASTM C 109/C 109M	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or (50-mm) Cube Specimens)
ASTM C 150	Standard Specification for Portland Cement
ASTM C 157/C 157M	Standard Test Method for Length Change of Hardened Hydraulic-Cement Mortar and Concrete

2. General Requirements

- 1) [I] Contractor's grouting specification shall include (but not be limited to) the following information:
 - a) Grout type for individual machinery applications.
 - b) Specific requirements of the machinery vendor and grout manufacturer.
 - c) Procedures for removal or retention of shims, tightening of anchor bolts, and for packing or grouting of anchor bolt sleeves.
 - d) Provisions to be made for weather protection or artificial temperature conditioning (i.e., hot and cold weather practices, as applicable). Information from sources such as ACI 305R, ACI 306R, and ACI 503R shall be used.
 - e) Mixing and application procedures for pre-packaged cementitious grout, where applicable.
 - f) Safe handling practices for epoxy grout systems.

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