

SECTION 09 96 00 {09960}

HIGH-PERFORMANCE COATINGS

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This section includes fluid applied coatings intended for applications requiring better scrubbability and durability than normal, increased chemical resistance, or increased protection from corrosion. Because of wide variety of products with different chemical compositions and performance characteristics, this section provides framework for specifying any type of coating, using descriptive, proprietary, or performance specifications.

Manufacturers listed in this section were identified as representative and not as an endorsement for meeting this specification. For additional product information, visit 4Specs at [www.4specs.com](http://www.4specs.com), ARCAT at [www.arcata.com](http://www.arcata.com), First Source at [www.reedfirstsource.com](http://www.reedfirstsource.com), SpecSource at [www.specsource.com](http://www.specsource.com), and Sweets Network at [products.construction.com](http://products.construction.com).

This section includes performance, proprietary, and descriptive type specifications. Edit to avoid conflicting requirements.

Contact the CSRF Support Center at [supportcenter@csrf.org](mailto:supportcenter@csrf.org) to submit comments or suggestions for improvements to this specification. Visit the SPECTEXT web site at [www.spectext.com](http://www.spectext.com) for current product announcements.

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PART 1 GENERAL

1.1 SUMMARY

- A. Section includes high performance coatings and special preparation of surfaces.
- B. Related Sections:
  - 1. Section 09 90 00 - Painting and Coating.
- C. Related Sections:
  - 1. Section 09900 - Paints and Coatings.

1.2 REFERENCES

- A. Federal Specification Unit:
  - 1. FS A-A-3054 - Paint, Heat Resisting (204 C).
  - 2. FS A-A-3120 - Paint: For Swimming Pools.
  - 3. FS QPL-TT-P-28-15 - Paint, Aluminum, Heat Resisting (1200 Deg. F).
  - 4. FS TT-C-555 - Coating, Textured (For Interior and Exterior Masonry Surfaces).
- B. Green Seal:
  - 1. GC-03 - Anti-Corrosive Paints.

2. GS-11 - Product Specific Environmental Requirements.
- C. Military Standardization Documents:
  1. MIL C-22750 - Coatings: Epoxy Polyamide.
- D. South Coast Air Quality Management District:
  1. SCAQMD Rule 1113 - Architectural Coatings.
- E. SSPC: The Society for Protective Coatings:
  1. SSPC - Steel Structures Painting Manual.
  2. SSPC Paint 16 - Coal Tar Epoxy-Polyamide Black (or Dark Red) Paint.
  3. SSPC SP 2 - Hand Tool Cleaning.
  4. SSPC SP 3 - Power Tool Cleaning.
  5. SSPC SP 5 - White Metal Blast Cleaning.
  6. SSPC SP 6 - Commercial Blast Cleaning.
  7. SSPC SP 7 - Brush-Off Blast Cleaning.
  8. SSPC SP 10 - Near-White Blast Cleaning.
  9. SSPC SP 11 - Power Tool Cleaning to Bare Metal.

### 1.3 PERFORMANCE REQUIREMENTS

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Basic performance requirements for high performance coatings are determined by generic chemical composition or actual composition of proprietary products specified. When level of performance is acceptable for all applications on the Project, do not include this article. Federal Specifications, which are optional text for some coating systems, usually specify only minimum performance.

However, when chemical composition is not specified, or when higher performance than minimum is required, additional performance criteria may be specified. In that event, it is essential to have information on actual physical characteristics of products having acceptable performance. Therefore, and since there are so many different chemical formulations available, this section does not include performance criteria, but instead provides framework for specifying criteria needed. In paragraphs below, each criterion needs performance value and test method, or other means of evaluating performance. Performance properties presented are commonly encountered for products of this type, but may not include all properties relevant to particular application or product.

To simplify specifying chemical and corrosion resistance criteria, two levels of performance are offered in this framework: "moderate" and "severe." Neither of these levels have standardized definitions -- instead, they are defined for each Project by criteria included, which should be selected based on applications and exposures to be encountered on the Project.

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- A. Minimum Performance Criteria: Provide coating systems meeting the following, unless more stringent criteria are specified:
  1. Abrasion Resistance: [\_\_\_\_\_], when tested in accordance with [\_\_\_\_\_].
  2. Impact Resistance: [\_\_\_\_\_], when tested in accordance with [\_\_\_\_\_].
  3. Hardness: [\_\_\_\_\_], when tested in accordance with [\_\_\_\_\_].
  4. Adhesion: [\_\_\_\_\_], when tested in accordance with [\_\_\_\_\_].
  5. Water Resistance: [\_\_\_\_\_], when tested in accordance with [\_\_\_\_\_].