

# SUBMITTAL

## TRIPAC 2000 BLUE COAT SYSTEM

**General Description:** Tripac 2000 Blue is a comprehensive coating *system* for the protection of steel bolts, studs, nuts, washers and other fasteners. This unique system includes step-by-step procedures necessary to insure that the coating meets the abrasion resistance, corrosion and chemical protection desired. This comprehensive coating system also significantly improves corrosion protection even when the surface (blue) coating is damaged in field applications. This system provides excellent lubrication therefore eliminating the need to use anti-seize.

### **Coating Procedures:**

1. Surface Preparation:
  - A. All Surfaces Chemically Cleaned
  - B. Abrasive Blasting with Alum. Oxide (120 Grit)
  - C. Zinc/Nickel Primer Process Applied
  - D. Baked
2. Coating:
  - A. Multiple Coats of Fluoropolymer Coating Applied (1 mil) 1014/1424
  - B. Air Dry For Minimum of 30 minutes
  - C. Baked at 425 Degrees for 1 hour
3. Quality control checked for uniform application and thickness. Appearance shall be free from any cracks, pinhole, runs, sags. Foreign matter, grit, rough particles or other surface imperfections.

**Coating Properties:** Tripac 2000 Blue differs from traditional Fluoropolymer coatings in one very important aspect – it is a composite material. Lubricants with the lowest known coefficient of friction are combined in a matrix with high temperature organic polymers. United, these polymers form “Plastic Alloys” Having unique and desirable properties:

1. Low friction; as low as 0.02
2. Wear resistance; even under extreme pressure
3. Corrosion and chemical resistance in most environments
4. Weather resistance against sunlight
5. Excellent lubrication to eliminate use of anti-seize

**Other:** 1000 Hours salt spray test (ASTM-B-117) Performed on bolts that have been torqued indicate that in some instances, some of the coating is removed from either the bolt head (by the wrench) or from the threads (by the nut). Even with this damage, the bolt shows minimum rusting and the nut is easily removed. Bolts protected by zinc plating and by hot dipped galvanizing show significant rusting and the nuts cannot be removed under the similar testing. Bolts used in this same testing are available for examination. Further information on physical and chemical properties is available upon request.

**Typical Specification:** “Except where otherwise shown or specified, all bolts and cap screws, shall be carbon steel conforming to the requirements of ASTM A307 Grade A. The corresponding nuts shall conform to ASTM A563 Grade A. All bolts and nuts shall be coated with Tripac 2000 Blue Coating system, or district approved equal”

**TRIPAC**

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