

Specifications for Ocal-Blue PVC Coated Galvanized Conduit and Fittings

1. All Ocal conduit prior to coating shall conform to Federal Specification WW-C-581E, ANSI specification C80.1 and UL 6.
2. Ocal conduit is “Hot Dipped” galvanized inside and out with hot dipped galvanized threads. The “Hot Dipped” galvanized threads are coated with blue urethane.
3. Conduits shall be investigated by Underwriters Laboratories for both the zinc as a primary coating and the PVC (polyvinyl chloride) as the primary coating ensuring double protection. Conduit shall be labeled with the UL Label having only one exception requiring the use of threaded fittings.
4. Conduits shall be UL Verified for adhesion performance (Conduit: 240 hrs oven conditioning at 212 degrees F, 600 hrs salt fog chamber, peel testing)
5. The interior of the Ocal conduit has a blue urethane coating of a nominal thickness of .002” (2 mils).
6. The exterior of the Ocal conduit has a PVC coating of a minimum thickness of .040” (40 mils) applied by dipping in liquid plastisol.
7. All Ocal coated conduit conforms to NEMA Standard No. RN-1.
8. Ocal conduit shall be bendable without damage to either interior or exterior coating.
9. A .002” (2 mils) nominal thickness coating of blue urethane is applied to the exterior, the interior of **fittings and couplings**.
10. A .040” (40 mils) minimum thickness coating of PVC is applied to the exterior of all fittings. The PVC is applied using the plastisol method except for strut channel, strut fittings, and sheet metal enclosures.
11. The PVC coating on all form 8 fittings forms a gasket-like flange of at least 5/16” wide and .040” (40 mils) thick covering the top of the fitting around the opening.
12. The PVC coating on all form 8 covers forms a gasket-like flange of at least 5/16” wide and .040” (40 mils) thick covering the bottom of the cover and mating with the flange of the fitting.
13. Stainless steel encapsulated screws are supplied with all form 7 and form 8 fittings.
14. All hubs on fittings and couplings have a PVC sleeve extending one pipe diameter or 2 inches, whichever is less. The I.D. of the sleeve to be equal to the O.D. of the uncoated pipe.

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15. The bond between the coating and the metal shall be greater than the tensile strength of the coatings.
16. A loose coupling shall be supplied with each length of conduit. The couplings have longitudinal ribs to enhance installation.
17. Ocal (PVC) is not recommended for use in areas where it will be exposed to sustained temperatures above 200 degrees Fahrenheit or exposed to fire. Prolonged exposure to heat greater than 200 degrees Fahrenheit or exposure to fire may cause the plastic coatings to release harmful emissions posing a potential health hazard to persons subjected to such emissions.
18. If subjected to sustained flame or heat above 400 degrees Fahrenheit, PVC will burn. PVC is self -distinguishing at room temperature.

Ocal PVC coated conduit and fittings must be installed according to the recommended installation procedures listed in the Ocal catalog. Installation training is available from factory sales specialists if necessary.

An Ocal PVC coated conduit system will have a life span of a minimum 10 times the life span of a galvanized conduit system without secondary protection coating in a given environment if installed in accordance with the recommended installation.