



Visconorust 2090P-4 Corrosion Inhibitor

Sonneborn, a producer of a range of rust prevention and anti-corrosion products, produces a specialty product called Visconorust 2090P-4, a scientifically compounded extended life petroleum base corrosion preventive. Visconorust is composed of a complex additive petrolatum system formulated for optimal performance in specific applications.

Applications

Visconorust is used in corrosion protection of post-tension anchors in bridge anchor and nuclear power plant construction, concrete dams, parking garages and in other special post-tensioning applications. Filling the steel tendons with Visconorust prevents rusting within the tendons. Unlike filling with grout, Visconorust can be removed to ensure that the steel has not rusted the tendons and allows for proper and complete inspection.

Designed for Performance

Visconorust is self-healing and thixotropic. The complex additive petrolatum system is designed to exclude air, water and other corrosive substances from tendon surfaces in two ways. First, by compounding the product with polar, water displacing, high reserve alkalinity additives, and secondly, by formation of a moisture and chemical transmission barrier of microcrystalline wax, reinforced by a laminar inorganic structure.

Visconorust 2090P-4 is ordinarily applied by melting and pumping between 82–110°C (180–230°F), but can be applied manually at ambient temperature for small jobs. This product conforms to ASME Section III Division 2 CC 2442.3.2 Unbonded Systems Permanent Coating. The 2090P-4 is the only Visconorust product offered by Sonneborn.

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Specifications for
VISCONORUST 2090 P-4

<u>PHYSICAL PROPERTIES</u>	<u>TEST METHOD</u>	<u>LIMITS</u>
Density (lbs/gal) @ 60°F (15.6°C)	ASTM D-1298	7.3-7.8
Specific gravity @ 60°F (15.6°C)	ASTM D-1298	0.88-0.94
Congealing Point, °F (°C)	ASTM D938	135 (57) min
Flash Point, °F (°C)	ASTM D92	420 (215) min
Viscosity, SUS @ 210°F	ASTM D-88	130 -300
Consistency- Cone Pen @ 77 °F (°C)	ASTM D937	170-200
Total Base No. (Modified)	ASTM D-974	35 min
Water Content (wt. %)	ASTM D-95	0.4 max

CHEMICAL PROPERTIES (Note: ASME Boiler & Pressure Vessel Code Sec. III, Div. 2, Table CC-2442-1)

Water Soluble Chlorides	ASTM D-512	2 ppm max
Water Soluble Nitrates	ASTM D-3867 (See Note 1)	4 ppm max
Water Soluble Sulfides	APHA 4500 S ²⁻	2 ppm max

Note 1: ASTM D-3867 replaces discontinued ASTM D-992 per ASTM Standards and is authorized in ASME Table IWL-2525-1.

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