



# CORROLON VI™



Product Code # SOL-XG71R

Custom Global Coatings for Rubber & Plastic Applications

## Pioneered For Rubber & Plastic Applications:

### Combining Chemical Protection With Expansion Properties For Petrochemical Conditions

- ▶ Provides chemical protection for expanding plastic and rubber substrates for petrochemical service
- ▶ Thick coating application allows maximum flexibility
- ▶ Heat characteristics ideal for downwell and petrochemical environments
- ▶ Innovative baked process allows for industrial bond strength and superior adhesion
- ▶ Reliable performance for frac wells and completions
- ▶ Prevents chemical attack to thick-walled rubber substrates and plastic components

CORROLON VI™ is a premier PVDF coating system designed to provide chemical protection for rubber and plastic substrates operating in hostile environments. Engineered for petrochemical immersion service, this flexible coating (a part of the CORROLON family of industrial coatings) acts as an aggressive barrier to prevent chemical attack from such elements as H<sub>2</sub>S, Cl, DI Water, and other common well fluids and by-products.

Cutting edge technology developed by industry demand, CORROLON VI™ creates a protective membrane that allows part expansion and pitch without creating a brittle or rough finish. Built for performance in an industrial market, this coating allows Engineers the ability to design key components in plastic and rubber materials that might otherwise fail or be compromised in the demanding environments of an upstream or downstream application.

## Engineering Data & High Performance Characteristics:

### Chemical Protection

CORROLON VI™ resists organic and inorganic compound attacks by means of a barrier which protects both rubber and plastic substrates. In environments where chemical attack is present, CORROLON VI™ provides a protective barrier against common downhole and industrial elements. Pump and Tool failures in motor seal bags, viton seal rings, and valve seals have all been significantly reduced as a result of this coating system ..... Thereby resulting in extended run times and enhanced performance in the field.

*Enabling rubber and plastic components to survive and perform in petrochemical & industrial service.*



CORROLON VI™ is a flexible coating pioneered to provide protection to rubber and plastic substrates exposed to aggressive service in the petrochemical and industrial sectors.



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## Thickness

CORROLON VI™ provides an even application that enables protective enhancement to rubber and plastic surfaces without significantly affecting critical engineering tolerances in designs. This coating system is uniform in thickness and range from 0.003" to 0.005" (+-0.001"). Under service conditions this premier coating can expand up to 200%, at a relative pitch of no greater than 180°, for extended periods of operation.

## Temperature Specifications

CORROLON VI™ operates very efficiently in extreme temperature environments. The thermosetting resins in this innovative coating enable it to perform in both a cryogenic and high temperature setting. Coated parts exhibit strength and non-stick properties, remaining highly flexible in demanding industrial use.

Continuous Operating Temp	175°F (79°C)
Intermittent Temperature	200°F (93°C)



CORROLON VI™ applied to an HSN seal bag for aggressive downwell service on a Baker Hughes motor group in Canada. Featured above, is a depiction of a seal bag prior to coating (White) and after an application of CORROLON VI™ (Black) has been baked into the rubber substrate.

## Non-Stick (Release) Properties

Distinct from friction, release is the property of a surface that affects the ability of a substance to adhere to it. CORROLON VI™ is uniquely formulated for immersion service and downhole applications. The flexible properties of PVDF provide a reduced coefficient of friction and ensure that foreign particles (fluid, well water, and the like) will be reduced on coated parts, resulting in minimal degradation. This in turn, enhances substrate performance in service and increases run life and operational success.



## High Performance Applications

- ▶ Downwell Packer
- ▶ Viton Rings
- ▶ Rubber Plugs & Pigs
- ▶ Plastic Seals
- ▶ Valve Rings
- ▶ Motor Group Seal Bags
- ▶ Injection Mould Linings
- ▶ Medical Stoppers
- ▶ Plastic Components
- ▶ Flange Seals
- ▶ Completion Systems and Fishing Tools
- ▶ Aerospace & Aeronautical
- ▶ Oilfield Processing Equipment
- ▶ Subs, Tools & BOP Seal Glands



CORROLON VI™ has been engineered for the demands of industrial environments and combines the properties of chemical protection with expandability. Creating a synergy between function and technology, CORROLON VI™ provides an innovative solution for rubber and plastic components for the oilfield.



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