

# Performance Technical Report

## HPC S04 Solid Dry Film Coating

HPC's S04 is the solution for applications that require ease of cleaning and outstanding chemical corrosion protection. Available in several colors, this unique fluoropolymer coating is applicable to all alloys with the same benefits.

Applications coated with S04 such as testing tanks, appliances, pressure vessels and solid rocket fuel blending systems have seen significant improvements in life, productivity and ease of cleaning, reducing downtime and increasing time between maintenance intervals. HPC's S04 coating is applicable to new and used components. With a temperature capability of 445° F (230° C) S04 is also very popular for use on plastic and rubber mold applications as well as heated sealing bars.

### Results of Use in Solid Rocket Blending Applications:

A low carbon steel oven used in the manufacturing of rocket propellant was coated with HPC S04-G to reduce chemical corrosion and contamination and to ease in cleaning and maintenance. The bright green color allows the operator the ability to see where cleaning is complete and serves to insure that corrosion that would cause dangerous conditions is easy to spot during inspection. After proper cleaning and coating by HPC in 1996, the oven continues provide outstanding service for the customer to this day.



### Results of Use on High Pressure Testing Vessels:

Test vessels coated with HPC S04 have yielded a 70% increase in component life. High-pressure particulate impingement and highly corrosive residue caused rapid deterioration of the fixtures prior to coating. As a result of the coatings excellent performance, HPC S04 is specified for all test vessels used by this customer, whether new or used.



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