

Benefits of Ceramic Cover CC Systems 100

■ The Benefits of Envirotrol Ceramic Cover CC Systems 100 continued...

- **Minimal surface preparation.** Equivalent to SSPC-SP2 or SP3. Pressure 3000 psi min. to remove dirt, grease, loose rust, mil scale cracked or chipped paint and other foreign material which may have effect on adhesion).
- **Superior adhesion for an insulation.** The Ceramic coating has been tested on several substrates with different type SSP preparation (Corrosion Probe Report). Average adhesion strength is 250 psi then coating disbonds within coating leaving 3 to 6 mils on substrate.
- **Pull Testing Results.** Another example is the product applied over galvanized with heavy thin film oil four coupons were submitted for pull testing.
 - **Sample (#1)** Surface oil sprayed with International Degreaser Product then sprayed with the coating.
 - **Sample (#2)** Panel preheated, no surface prep, product then sprayed over oil and force cured.
 - **Sample (#3)** No surface prep, product sprayed on ambient substrate then let dry at ambient
 - **Sample (#5)** Surface preparation by a solvent clean then sprayed and let dry at ambient.

Results of adhesion on report dated March 18th. On March 25th all panel were tested in hot/cold cycling for 100 hours, inspected for blistering then resubmitted to Corrosion Probe for more pull testing. March 27th report is the result of adhesion of the product applied over oil under different scenarios.

- **Space savings and visual inspection** Ceramic Cover CC Systems 100 is applied in mils not inches, therefore reducing pipe rack sizes, etc. and exposing hot spots by discoloration if the vessel is losing it's integrity).
- **No VOC's and Environmental friendly.** Passed all safety requirements tested by the University of Mississippi for toxic smoke inhalation. Minimizes cost of disposal.
- **Corrosion Inhibitor.** Used as a Primer, Ceramic Cover CC Systems 100, serves as a corrosion inhibitor by impeding condensation and disallowing water to migrate behind the product.
- **Serves as a Top coating or protective coating.** Product can be tinted any color.
- **Chemical resistance.** See Chemicals tested; additional tests not in the manual: methanol, Acidic, Citric Acid.
- **Permeability** is equivalent to some epoxies. (Corrosion Probe Report)
- **Superior Environmental barrier.** The product conforms directly to the surface of several type style substrates providing a weather barrier and eliminating places that could harbor bugs or rodents, a common problem in fiberglass. Also prevents animals from destroying the insulation, a common problem on fiberglass insulated pipelines.
- **Ceramic Cover CC Systems 100 is unaffected by UV rays.** Ceramic Cover CC Systems 100 has Past 1300 Hours of accelerated aging by exposure of 12 hours salt fog and 12 hours UV rays. (Corrosion Probe Report)

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- **Noncombustible and low flame spread.** (Ceramic Cover CC Systems 100 is 5 out of 100 flame spread). In addition, the product passed Marine Fire Safety testing (A-653(16)) fire test procedures for surface flammability of bulkheads, ceiling and deck materials.
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- **Insulates and reduces surface temperatures.** Due to the low thermal conduction and other insulating properties, Ceramic Cover CC Systems 100 insulates and reduces surface temperatures enough for the application of inexpensive top coatings while providing personnel safety from burns by incidental contact.
- **No need to shut down company.** Ceramic Cover CC Systems 100 can be applied without operation shut down except on cold, wet applications.
- **Not affected by moisture or breachment.** The insulation properties of Ceramic Cover CC Systems 100 are not affected by moisture or breachment. Minor repairs can be done with a brush on application.
- **Cost savings.** Ceramic Cover CC Systems 100 does not require lagging support to avoid sagging or jacketing for a moisture vapor barrier.
- **Superior radiant heat barrier.** The product has less than one-half percent (.39%) transmittance, eliminating the majority of radiant heat penetration. (Ga. Tech Report)
- **Low chloride content.** The product has been tested for chlorides (less than 23ppm) and Halogens (19ppm). This makes Ceramic Cover CC Systems 100 a compliment coating to stainlesssteel.
- **Easy clean up.** Cleans-up with soap and water. Application is dry fall over five feet.
- **Flexible in freezing temperatures.** Ceramic Cover CC Systems 100 remains flexible in temperatures of -30 degrees F. (Action Testing lab Reports on Styrofoam; an increase in the insulation value of the foam, protective coating against UV Rays.
- **Increased strength of foam** (tripled from 1.0pcf to 3.0pcf) and remained durable at -30f.