

## High Chloride Surface Cleaning

The following procedure is recommended for steel substrates with existing coatings that have been exposed to high chloride ambient conditions and are to have a Valentus maintenance coating system applied. Chloride contamination on a surface to be coated will cause the premature failure of any coating system, removal of the chloride contamination prior to paint application is critical to the long term performance of the system. The following steps are recommended. The degree of work to remove corrosion product and old paint will be determined by the condition of the surface to be painted.

1. Prepare the surface to be painted per the requirements of SSPC-SP3.
2. Test the cleaned surface for chloride level using the Chlor Rid International Chlor Test system, follow the manufacturers direction with the test kit. Depending on the size of the area to be coated multiple tests should be made to establish the starting chloride level. [www.chlor-rid.com](http://www.chlor-rid.com)
3. Using Chlor Rid DTS clean a 2ft by 2ft area of the prepared surface following the manufacturer's instructions.
4. Repeat step 2 to establish the amount of chloride left on the surface. The measured amount should be recorded as part of the job permanent record.
5. Repeat step 3 on the same area and again measure the remaining chloride level. This step should be repeated until the minimum achievable chloride level, defined as the level that does not change further with additional treatment is attained. This should be the target for the entire surface and should be attainable in 2 to 3 cleanings unless recontamination is occurring. If continued fallout is occurring during the cleaning and application period, the surface to be coated should be protected by temporary tenting. Failure to do so will result in premature failure of the coating.
6. After the required number of cleaning cycles has been determined clean the surface that has been prepared for painting in increments that can be painted before the surface is re-contaminated.
7. Apply Valentus VSC1100 to the surface prepared in step 6 following the manufacturers recommended procedure.
8. If the surface being painted is not protected from contamination the primed surface should be tested again for chloride contamination as described in step 2.
9. If no chloride contamination is found apply the VSC1200 topcoat following the manufacturers recommended procedure. If chloride contamination is found repeat step 3 to remove the contamination and then apply the VSC1200.

Date: August 2017



## **Chlor\*rid® Specification “F” \*Hand Washing\***

F). Hand washing is to be done for contaminant removal in areas of spot repair or areas very small in size. Any loosely adhered paint, rust scale, corrosion deposits or other barrier material is to be removed first. This is to be done by means of abrasive blast to (insert specification) or by hand or power tools as per (insert specification). Apply CHLOR\*RID DTS (Direct To Surface) material sufficient to wet out the entire surface. The DTS solution is to be scrubbed over the surface vigorously with a nylon bristle brush or similar tool. After scrubbing is completed, the surface is to be rinsed and flushed with a quantity of the same wash solution. After rinsing, the surface is to be blown dry with clean compressed air (insert air quality specification) or fan. The surface is to then be tested by CHLOR\*TEST test kit (or other acceptable test method) to ascertain the contaminant level is below (insert specified acceptable level). Any test area that is confirmed to be in excess of the acceptable level of soluble salts is to be re-washed in the above manner until a clean surface is achieved.

After an area of approximately 25 square feet has been washed, the surface is to be tested for soluble salt contamination level is above or below the required level, the square foot application rate may be decreased or increased as necessary, with another test performed to ensure cleanliness at the adjusted application rate. This may be done several times to determine the most economical application rate needed to remove the soluble salts to the required level. Both travel speed and/or dilution rate may be adjusted to achieve the desired results. After washing, excess water is to be blown off with clean dry compressed air (insert air quality standard) or fan.

[www.chlor-rid.com](http://www.chlor-rid.com)