

PERMEATE™

HS-100 CORROSION PORE SEALER

Make It Last and be Maintenance-Free ...

HS-100 Permeate™ is a special inorganic silicate top coat, having high fluidity, designed to penetrate and seal standard corrosion resistant coatings applied to metal surfaces. HS-100 was developed by D & D Corporation in Japan. The demand for higher corrosion resistance for structural steel has increased significantly in recent years. Even though spray coatings have high corrosion resistance, they often require additional top coatings to prolong their life cycles for practical use, particularly in extreme atmospheric environments. The main problem is the micron size holes or micro-pores formed on the coating surfaces in the drying process. Although they are very small many of these are through holes which expose the base metal surface to the outside environment. One of the most popular spray coatings is Aluminum-Zinc (Zn/Al) arc spray which although generally effective, is known to have micro-pores covering 5 to 15% of total coated surface area. Permeate™ penetrates the micro-pores and hardens by reacting with moisture in the air, covering the holes and irregularities of the anti-corrosion surface coating. It not only plugs the micron holes but also reduces the surface area by flattening the surface shape. Permeate™ has proven effective in preventing corrosive liquids and gases from reaching the base metal. The accelerated test (jis h8502) shows that Permeate™ could prolong the life of the metal by 20 years or more. For example: a steel plate coated with Zn/Al and a single coat of Permeate™ under sever exposure to marine conditions, will retain its original integrity and appearance for as much as 40 years and is expected to resist corrosion for as much as 80 years.

BENEFITS

- PLUG MICRO-PORES
- PROTECTS FROM CORROSIVE GAS/LIQUID/SALT
- RESISTANT TO WEATHER, MARINE CONDITION, UV RAYS
- NO DISCOLORATION
- MAINTAINS THE SAME SURFACE APPEARANCE
- HIGH FLUIDITY (PENETRATES MICRON SIZE HOLES)
- EASY & FAST APPLICATION (SPRAY/BRUSH/ROLLER)
- MULTIPLE COATING NOT REQUIRED
- REAPPLICATION NOT REQUIRED - NO MAINTENANCE
- HEAT & FIRE RESISTANT MATERIAL
- CAN BE USED AS PAINT WITH ANY COLOR OF CHOICE
- COLOR WILL NOT FADE FOR DECADES
(PAINT APPLICATION: PERMEATE HS-200)

Technical Papers Related to PERMEATE™:

D.M.Barry, P.McGrath, et al.(Clarkson University) "Corrosion Protection of Metal Spray Coating By Using An Inorganic Sealing Agent For Its Micropores", Int'l Thermal Spray Conference & Expo., Osaka, Japan, 10-12 May 2004

D.C.Van Aken, Y.Kato, (Univ. of Missouri) "Salt Fog Corrosion Testing of Al-Y-Co based Nano-crystalline and Amorphous Coatings Produced by Atmospheric Plasma Spray", The ASM Int'l Surface Engineering Congress, Orlando,FL 2004

And others



HS-100 PERMEATE was used on the landing approach light apparatus built in the ocean at the Kobe International Airport in Japan

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