VpCI®-368 HB

PRODUCT DESCRIPTION

VpCI-368 HB (High Build) is a removable petroleum-based liquid barrier coating that provides extended outdoor multimetal protection. This version of VpCI-368 is intended for a maximum film build per coat.

FEATURES

- Chip resistant
- Maintenance-free once cured
- Remains flexible
- Provides semi-dry translucent brown film
- Dilutable with mineral spirits
- Fast drying
- Does not contain silicones or nitrites
- Thixotropic with excellent sag control for high build
- Moisture displacing
- Thermally stable coating over a broad range of temperatures (-40°F to 200°F/-40°C to 93°C)
- Excellent UV resistance
- Up to 24 months of outdoor protection in a corrosive atmosphere
- Effective for a broad range of applications under a wide variety of outdoor environmental conditions
- Non-conductive film prevents galvanic corrosion between dissimilar metals
- Excellent salt spray resistance
- Reduces labor
- Lowers operating costs
- No need for sheltered storage
- Conforms to MIL-C-16173 D (Grades 1 and 2)
- NSN 8030-00-62-6950
- NATO 6850-66-132-5848
- NATO 6850-66-132-6099

TYPICAL APPLICATIONS

VpCI-368 HB is used to protect uncovered exterior surfaces and readily accessible interior surfaces in outdoor environments during storage, processing, or use. Typically the thicker the dry film thickness (DFT), the longer the protection. VpCI-368 HB allows either heavy multiple coats or one heavy single coat. For best performance use a two-coat application.

APPLICATIONS

- External surfaces and accessible interior surfaces of large machines, pipes, pumps, heat exchangers, boilers, turbines and transformers during standby, field storage, or shipping
- Protects any metal part, component, or assembly between processing or machining steps
- External and internal surfaces of equipment on offshore drilling and production platforms
- Wire rope, cable, wire, and chains
- Transmissions, hydraulic pistons, and cylinders
- Protection of structural components
- Equipment undercoating

APPLICATION/REMOVAL

VpCI-368 HB may be applied by dipping, brushing, or spraying. A dry film thickness of at least 2 mils or greater is recommended for uncovered outdoor storage. VpCI-368 HB may be diluted with mineral spirits or other suitable diluents to facilitate application. VpCI-368 HB can be removed with mineral spirits, alkaline cleaners such as Cortec® VpCI-414, aliphatic or vapor degreasing solvents.

METALS PROTECTED

- Carbon steel
- Stainless steel
- Cast iron
- Aluminum alloys
- Brass
- Copper-nickel alloys

CORTEC CORPORATION
Environmentally Safe VpCI®/MCI® Technologies

TYPICAL PROPERTIES

Appearance	Dark brown viscous liquid
Carrier	Mineral spirits
Corrosion Resistance	Up to 60 months
Drying Time*	2-3 hours
Recommended Film Thickness	
Dry Film	3-5 mils (75-125 microns) per coat
Film Type	Dry, waxy
Non-volatile Content	61-66%
Removal Methods	Petroleum solvents
Salt Spray Resistance on Carbon Steel (1010)**	
2 mils (50 microns)	900-1600 hr
Viscosity at 74°F (23°C)	15,000-25,000 cps
Density	7.3-7.5 lb/gal (0.87-0.90 kg/l)

*Depends on direct sunlight, air-flo, temperature, etc. A 6-8 mil (150-200 micron) wet film in direct sunlight with 70°F (21°C) temperatures will dry in approximately 20 minutes. Allo more time if dried in shade, less time if air movement can be added.
**in hours according to ASTM B-117 Standard.

RECOMMENDED SPRAY EQUIPMENT

This information is based on spraying VpCI-368 at 3 parts concentrate to 1 part mineral spirits. If using a dilution other than this, please consult a Cortec or Graco representative.

Model	510/AA Plus or Airless
Pump	30:1 President
Tip	0.011-0.015 in (0.027-0.038 cm)
Cap	Standard
Filter	60 Mesh High Pressure
Air Pressure	80 psi (550 kPa)
	3/8" x 10' with whip hose for ease of handling
	(0.9525 cm x 3 m x 0.635 cm)
Fluid Pressure (Supply/Gun)	2000/1700 psi (138/117bar)

The minimum fluid atomization pressure required is 1500 psi (103 bar), which gives 2-4 mils (50-100 microns) WFT/pass.

EXPOSURE LIMITATIONS

For use in uncovered outdoor storage for up to 60 months. Provides excellent protection in outdoor, inside and sheltered storage.

PACKAGING AND STORAGE

VpCI-368 HB is available in 5 gallon (19 liter) containers and 55 gallon (208 liter) steel drums. Products should be stored in a securely closed container. Shelf life is 24 months.

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN
KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION
CONSULT SAFETY DATA SHEET FOR MORE INFORMATION

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

Cortec Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec Corporation.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

CORTEC CORPORATION
Environmentally Safe VpCI® MCI® Technologies

4119 White Bear Parkway, St. Paul, MN 55110 USA
Phone (651) 429-1100, Fax (651) 429-1122
Toll Free (800) 4-CORTEC, E-mail info@cortecvci.com
Internet http://www.CortecVpCI.com

Supplied by:
www.hitek-ltd.co.uk
+44 (0)1724 851678
HITEK ELECTRONIC MATERIALS LTD

printed on recycled paper 100% post consumer
Revised: 8/21/13. ©Cortec Corporation 1998-2013. All rights reserved. Supersedes: 10/10/11.
Cortec® and VpCI™ are trademarks of Cortec Corporation. ©2013, Cortec Corporation. All Rights Reserved.
Copying of these materials in any form without the written authorization of Cortec Corporation is strictly prohibited.
ISO accreditation applies to Cortec's processes only.