

Tectyl® 1431

Description

TECTYL® 1431 is a black (2.8) VOC, HAPS free, air dry, high solids, solventborne corrosion preventive hard shell coating. TECTYL® 1431 is an effective barrier

against corrosive environments for ferrous and non-ferrous fabrications and industrial components. The cured film is hard, flexible and durable.



Laboratory Data

Flash, PMCC*, Minimum
 Density, Weight/Gallon @ 77°F (25°C)
 Specific Gravity @ 60°F (15.6°C)
 Recommended Dry Film Thickness over Metal Profile
 Theoretical Coverage @ Avg. Recommended DFT
 Non-Volatile % by Weight
 Non-Volatile % by Volume
 Volatile Organic Content (VOC)
 Approximate Dry to Touch Time @ 77°F (25°C)
 Post Application Parameters
 Handling Time (labeling, wiring, etc.)
 Weather Exposure:
 rain
 snow
 Mechanical Properties @ Recommended DFT
 Gloss (60) @ 24 Hours
 QUV (168 Hours) ASTM D4587
 % of Original Gloss Retained
 Mandrell Bend (180°)
 Pencil Hardness

Typical Properties

50°F
 9.70 lbs./gallon
 1.16
 1.5 – 3.0 mils
 915 sq. ft./gallon
 71 ± 2
 57 ± 2
 2.80 lbs./gallon
 10 – 15 minutes
 1 hour
 1.5 – 2.5 hours
 1 – 1.5 hours
 90
 88%
 Good
 H

Accelerated Corrosion Tests:
 (2x4x1/8 in. Polished Steel Panels)

5% Salt Spray (Hours) 1200
 ASTM** B-117 @ Recommended DFT:

*PMCC (Penske Martin Closed Cup)

**ASTM (American Society for Testing and Materials)

Surface Preparation

The maximum performance of TECTYL® 1431 can be achieved only when the metal surfaces to be protected are clean, dry and free of rust, oil and mill scale. Daubert Chemical Company recommends that the metal substrate temperature be 50-95°F (10-35°C) at the time of product application.

Application

TECTYL® 1431 is formulated to be used as supplied. Ensure uniform consistency prior to use. Continued stirring is generally not required. If the product thickens due to cold storage or loss of solvent during use, contact Daubert Chemical Company. DO NOT THIN TECTYL® 1431. Incorrect thinning will affect film build, dry time and product performance. Daubert Chemical Company recommends that the ambient and product temperature be 50 - 95°F (10 - 35°C) at time of application. TECTYL® 1431 can be airless spray, conventional spray, or brush applied.

Removal

The dry film is not normally intended for removal. The product can be stenciled over after the film is cured. Xylene, Acetone, or Ketone solvents will remove fresh residue accumulated on application equipment. If removability is a factor, contact Daubert Chemical Company and samples should be evaluated prior to application.

Storage

Store TECTYL® 1431 at temperatures between 50-95°F (10-35°C). Mild agitation is recommended prior to use.

Caution

Adequate ventilation is required for cure and to ensure against formation of a combustible liquid. THE PARTIALLY CURED FILM SHOULD NOT BE EXPOSED TO IGNITION SOURCES SUCH AS FLARES, FLAMES, SPARKS, EXCESSIVE HEAT, OR TORCHES. Refer to Daubert's Material Safety Data Sheet for additional handling and first aid information.

Note:

The addition of any product over or under this coating is not recommended. The use of additional coatings could result in chemical incompatibility, thus adversely affecting the performance of this coating as stated in the lab data section. If a product other than Daubert Chemical Company' recommended product is required, written authorization must be obtained from Daubert Chemical Company.

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CAUTION: The data, statements and recommendations set forth in this product information sheet are based on testing, research and other development work which has been carefully conducted by us, and we believe such data, statements and recommendations will serve as reliable guidelines. However, this product is subject to numerous uses under varying conditions over which we have no control, and accordingly, we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and particular use or uses.

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REFER TO MATERIAL SAFETY DATA SHEET FOR HEALTH AND SAFETY INFORMATION.

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