

Permax 805

Vinylidene Chloride Acrylic Emulsion

DESCRIPTION

Permax® 805 is an **APE-free**, low VOC, small particle size poly vinylidene chloride (PVDC) acrylic copolymer emulsion. Coatings based on this polymer display extremely low moisture vapor permeability and excellent corrosion resistance.

Permax 805 exhibits longer shelf stability than traditional PVDC acrylic polymers. Coatings based on this polymer demonstrate excellent corrosion resistance and adhesion over a variety of metal substrates.

Primers formulated with **Permax 805** emulsion can be top coated for exceptional durability and corrosion resistance.

SUGGESTED APPLICATIONS

- Maintenance Primers
- Barrier Coatings
- Under-hood and Under-body Coatings
- Rust Converting Products

PERFORMANCE FEATURES

- APE-free
- Excellent moisture vapor transmission resistance
- Superior corrosion resistance
- Excellent humidity resistance
- shelf-life of up to 12 months
- Low VOC
- High Solids
- Excellent Adhesion to cold rolled steel and Bonderite® 1000 (iron phosphate treated steel)

PHYSICAL PROPERTIES*

Appearance	Milky White Liquid
Total Solids by Weight, %	60
Total Solids by Volume, %	48.8
Pounds/Gallon	10.7
Specific gravity g/cc	1.28
Brookfield Viscosity, cps	85
pH	1.0 - 2.2
MFFT, °C	13.5
Freeze/Thaw Stability	Protect from freezing

* Property values represent typical results only and are not to be considered as specifications

June 29, 2010

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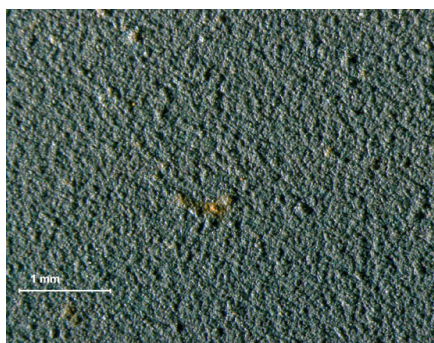
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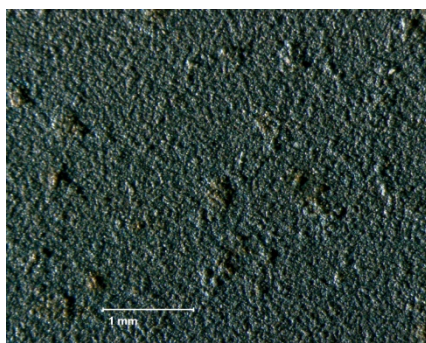
EXPECTED PERFORMANCE

A coating formulation based on **Permax 805** demonstrated excellent humidity resistance after 800 hours exposure when compared to competitive PVDC resins. The films in the images shown below were prepared from a Model Black Paint formulation using Permax 805 (left side), competitive PVDC1 (middle), and competitive PVDC2 (right). The coatings were identical in formulation and the dry film thicknesses were the same on the cold rolled steel test panels.

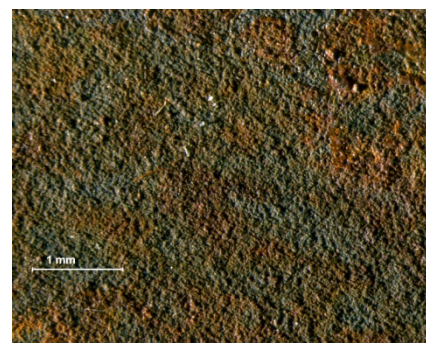
Permax 805



PVDC1



PVDC2



800 Hours Cleveland Condensing Humidity Cabinet Exposure

The photomicrographs indicate that the Permax 805 film suffered very few defects during the exposure to the high humidity conditions. PVDC1 exhibited a greater number of blisters. PVDC2 suffered widespread rusting and corrosion of the underlying metal surface.

Rust Converters

Permax 805 can also be used as the primary binder in the preparation of rust converting primers. Formulations are available on request.