



TECHNICAL DATA SHEET

Water Reducible Alkyd Topcoat

Product Description

TCI liquid industrial coating Water Reducible Alkyd Topcoat is an economical, general-purpose enamel formulated for general industrial OEM use and refinishing. Can be used in DTM applications. This base is designed for compatibility with Chromachem 896 and Dayglow NVC WB Tint dispersions.

Advantages

- Economical, low VOC
- Available in a wide range of colors
- Good corrosion and early water resistance
- Fast dry

Physical Properties/Specifications

| | |
|-------------------------------|-----------|
| Wt% Solids | 32-38% |
| Vol% Solids | 26-29 |
| Density, lb/gal | 8-9 |
| Formulation Viscosity | 85-95 KU |
| Recommended Mils | |
| • Wet | 4.0 – 6.0 |
| • Dry | 1.0 – 1.5 |
| Gloss (60 Degree) | 90+ |
| Formula Flash Point, F | 200F |
| Material VOC #/Gal | 2.9-3.1 |

Performance Test Results

| | |
|--|--------------|
| Substrate | B-1000 CRS |
| DFT | 1.0-2.0 mils |
| Pencil Hardness (ASTM D3363) | 3B |
| Impact (D/R) (ASTM D2794) | 160/10 |
| Mandrel Bend (1/4") (ASTM D633) | Pass |
| Crosshatch Adhesion | 5B |
| Salt Spray (ASTM B117) | 250 Hours |
| • 1-2 mm scribe creep, no field blisters | |
| Cyclic Corrosion (ASTM G85) | 500 Hours |
| • < 1mm scribe creep | |

Application

| | |
|--------------------------------------|--|
| Catalyst and Catalyst Ratio | N/A |
| Pot Life of Catalyzed Formula | N/A |
| Reducer and Amount | Up to 5% water if needed |
| Retarder and Amount | N/A |
| Air Dry Schedule | |
| • Surface Dry | 30 minutes |
| • Through Dry | 1-2 hours |
| Oven Dry Schedule | N/A |
| Recoat Instructions | 30 min to 1 hour after initial application |
| Spreading Rate | 400-480 sq. ft./gal |
| Optimum Tint Levels | 8-14% total formula weight |
| Temperature | 50F/10C to 100F/38C air, surface, and material |
| Relative Humidity | 40-60% (85% max) |
| Shelf Life | 6 months |

Settings

| | |
|---------------------------------------|-------------------|
| Conventional Spray Air | 50-60 PSI |
| Conventional Spray Fluid | 10-20 PSI |
| Air Assisted Airless Air | 20-30 PSI |
| Air Assisted Airless Fluid | 500-1000 PSI |
| Airless Fluid | 1000-2000 PSI |
| High-Volume Low-Pressure Air | 20-30 PSI |
| High Volume Low Pressure Fluid | 10-14 fl. oz./min |

Storage

- Do not store above 100°F or below 50°F.
- Adverse temperature can affect storage life.
- Keep containers closed all times.



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Additional Information

Dry times and application results will vary depending on the temperature, humidity, film, build, color, and air movement. If drying conditions are poor (low temperature, high humidity), longer drying times are required. Changes in pressures and tip sizes may be needed for proper spray characteristics.

Do not apply when the surface temperature is less than 5°F (3°C) above the dew point. Special application techniques may be required above or below normal application conditions

- Clean up using water or a water / EB blend.
- Maximum Cure (Ambient Conditions) achieved after 7 days.
- Refer to SDS for proper Personal Protection Equipment and Safety measures.
- Check Local and State regulations for VOC, HAPS and any other environmental regulations.
- Pretest each system on your substrate (under normal line conditions) to verify performance.
- DO NOT exceed Total Dry Film Thickness Recommendation.
- Agitate and mix thoroughly before each use.
- Agitate gently during use.
- Extreme temperature and humidity conditions can adversely impact dry times and cure.
- Always use stainless steel equipment when using Acid Catalyst or WB or UV Products
- Do Not Freeze
- Exterior Use
- In Catalyzed Products/ Do NOT adjust catalyst or amounts without consulting your local representative

Chemist Luke Cote

Date 2/18/2025

The data on this sheet are calculated values (as formulated) and will not represent exact values for every product. SOS and CPDS sheets are available upon request. Drying times and viscosities reported are as tested under laboratory conditions (77°F {25°C) with relative humidity of approximately 45%. Changes in temperature and humidity will affect product data. The following definitions are being utilized for HAP content: "HAPS-Compliant": < or = .8 lb. HAPS/lb. Solids; "low-HAPS" <,5 lb. HAPS/lb. Solids; "Ultra-low-HAPS" <2 lb. HAPS/lb. Solids; "HAPS Free": <.05 Lb. HAPS/Lb. Solids. HAP content is based upon the presence of HAP compounds utilizing limits as defined in 29 CFR 1910.1200. Manufacturer assumes no liability for use of this information which is intended to serve as a general guide.

It is the user's responsibility to verify product compliance with all applicable regulations or permits before proceeding with use. Always pretest any finishing products to verify suitability to the desired use before proceeding with any application. Manufacturer makes no warranties, express or implied, including {but not limited to} warranties of merchantability and fitness for particular purposes. Manufacturer will not be liable for any incidental, consequential or special damages or losses derived, directly or indirectly, from or as a consequence of purchaser's use of this product.

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