



PRODUCT DATA SHEET – PRIMER SERIES

PT-522 ZINC CHROMATE PRIMER

DESCRIPTION

- **PT-522 Zinc Chromate Primer -- TT-P-1757 TYI CLASS C & N** is a general purpose, rust inhibitive, alkyd primer. It is intended for use over metals that are bare, scuffed, sanded, lightly rusted, abrasive blast and previously painted surfaces while showing excellent anti-corrosion properties. The primer chemically etches into the surface to provide exceptional adhesion and durability. Also, moisture in the air causes the zinc chromate to react with the metal surface, and it forms a passive film that prevents corrosion. Although this primer is intended for metals, it may be applied to wood, composite and concrete surfaces. **PT-522** is not resistant to all solvents, i.e. MEK and Acetone.

COLORS – YELLOW AND GREEN (CUSTOM COLORS DO NOT MEET THE MIL-SPEC)

COATING PROPERTIES & CHARACTERISTICS

Reducer	Acetone, PT-1022X66, PT-1003TYIII, (conforms to MIL-T-81772B TY. III)
Recommended Dry Film Thickness	0.6 – 0.9 mil
Spray Viscosity	14 seconds, max #4 Ford
Weight per Gallon	10.9 lbs.
Coatings VOC	244 grams per liter
MIL-SPEC	TT-P-1757B TY. I&II

SHELF LIFE

Shelf life is only applicable for materials stored in unopened and undamaged original factory filled containers.
1 year when stored between 50°-85° Fahrenheit.

SURFACE PREPARATION INSTRUCTIONS

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with PTC-2002 or GTS-2000 0 VOC Cleaners/Degreasers or other suitable detergent cleaner/ degreaser. Rinse thoroughly with water. It is recommended that a final rinse or wipe with solvents IPA, Acetone or MEK. Rinse/wipe thoroughly allow to fully dry. Remove all remaining dust and debris by lightly wiping the surface with a tack rag or cheese cloth if necessary. All surfaces must be dry at time of application.

STEEL: Hand tool (SSPC-SP-2) or power tool (SSPC-SP-3) clean to remove all loose rust, mill scale, and deteriorated previous coatings. Abrasive blasting to a minimum Commercial Grade (SSPC-SP-6, NACE 3) with a 1–2 mil (25–50µ) surface profile is recommended for optimal performance. Abrasive blast cleaned steel requires two coats of primer. Scuff the surface with scotch bright pads.

- For additional protection we recommend applying PTI's Acid Etch Primer (PT-402) prior to the Zinc Chromate Primer.

MIXING INSTRUCTIONS

Mix the paint on a shaker for 5 – 10 minutes for optimal results.

Admix by volume:

1. If it is necessary to reduce/thin the primer, start by adding 1 part by volume Acetone, PT-1022X66, or PT-1003TYIII to 8 parts primer by volume. More may be added for individual applications. Do not exceed more than 1 part primer to 1 part reducer.
2. Mix only the amount that can be used in one day.

APPLICATION

This product can be applied using conventional air spray equipment or HVLP systems. Make sure pots, guns, and lines are purged and cleaned before each use.

1. Mix both paint and reducer thoroughly and filter/strain before spray application.
NOTE: It is not recommended to strain flat/matte coatings.
2. HVLP Spray Pressure: 7-10psi
3. Always air-blow and tack wipe the surfaces to be painted. Aircraft should be grounded to prevent static.
4. Best application results: apply 2 coats: 1 fog/tack coat & 1 full coats from 0.6 – 0.9 mil thickness.
5. Recommended Dry Film Thickness is 0.6-0.9 mils.

NOTE: Application of PTI products requires the use of all OSHA approved safety equipment, including proper ventilation. Additionally, PTI products require the recommended temperature/humidity conditions and film thickness ranges for optimal performance. For planes in hangers, the material, hangar, and aircraft skin temperatures should be no lower than 75° F / 25° C before, during and after application.

DRYING & CURING SCHEDULE

Dry times are based on the dry film thickness between 0.6 - 0.9 mils (15-23 microns).

Air Dry:

Allow applied coating to dry for at least 15 minutes before applying top coat. Primer dries dust free in 5 minutes and dries hard in 15 minutes. Times may vary depending on climate, temperature, and atmospheric conditions.

Always bring the coating to the “tack free” stage before top coating.

EQUIPMENT CLEANUP

Use clean Acetone, MEK, PT-1022X66, or PT-1003TYIII for clean-up. Do not allow material to dry or cure inside any equipment.



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HEALTH, SAFETY, & STORAGE REQUIREMENTS

Refer to each individual material SDS (Safety Data Sheet) for specific requirements on the health, safety, storage and handling requirements. Follow all local, state, and national regulations during surface preparation, material application and cleanup.

PRODUCT INFORMATION & DISCLAIMER

Product Data Sheets are periodically updated to reflect new information. It is important to use the latest and most recent revision for the product being used. The foregoing information is accurate to the best of our knowledge. However, due to differences in customer handling, use and method of application which are not known and are beyond our control, Products Techniques, Inc. makes no warranties as to the end result.