



Key Industry Manager (KIM) Passivate Technologies

Clear-Opalescent:

- ❑ ***TASDIP TriMate Passivate:*** A thick film trivalent passivate which forms an attractive, distinct, light iridescent film on zinc and zinc alloy plated surfaces. Provides up to 500 hours to the formation of white rust. In addition, the ***TASDIP TriMate Passivate*** film has very high heat resistance, allowing for bake cycles after film formation.
- ❑ ***TASKEM Lanthane 315:*** A specially formulated liquid concentrate, based exclusively on trivalent chromium compounds that produces a uniform, clear “thick film” passivate on alkaline zinc electroplated deposits. Used in conjunction with a **TASCOAT** organo-mineral topcoat, parts processed with ***TASKEM Lanthane 315*** will provide superior white corrosion protection when tested according to ASTM B117.
- ❑ ***TASDIP 5P043SR:*** A specially formulated liquid concentrate, based exclusively on trivalent chromium compounds, that produces a clear/yellow film on low alloy (5-7%) Zn/Ni electroplated deposits. Parts processed with ***TASDIP 5P043SR*** will provide up to 360 hours to white corrosion when tested according to ASTM B117.
- ❑ ***TASDIP TR-175 Passivate:*** A unique and highly protective post-plating treatment system for zinc and zinc alloy deposits, except those deposited via mechanical methods. It is based on trivalent chrome compounds that are used in combination with nano-particle technology. It exhibits at least two unique operating features: (1) the film formed possesses self-healing characteristics which add measurably to the corrosion protection it provides; and (2) the operating solution can be easily waste treated because the operating bath does not contain compounds that chelate or complex metals. It produces a uniform, bright, protective film on electro-deposited zinc surfaces. The color of the film varies slightly, depending upon the type of deposit over which it is applied.
- ❑ ***TASKEM Finidip 128:*** A specially formulated liquid concentrate, based exclusively on trivalent chromium compounds, that produces a uniform clear/blue film on high alloy (12-15%) Zn/Ni electroplated deposits. Used in conjunction with a **TASCOAT** organo-mineral topcoat, parts processed with ***TASKEM Finidip 128*** will provide superior white corrosion protection when tested according to ASTM B117.
- ❑ ***TASDIP TR-173 Passivate:*** A specially formulated process, based exclusively on trivalent chrome compounds. A unique feature is that the passivate formed produces a uniform bright film with a slight yellow/green pearlescence on any type of electro-deposited zinc and zinc alloy surface. The film formed provides up to 360 hours corrosion resistance to white rust.

Blue:

- ❑ ***TASDIP Stellar Passivate:*** A high polishing, single dip, blue bright trivalent passivate for zinc and zinc alloy deposits. The ***TASDIP Stellar Passivate*** provides equal to or greater corrosion protection than conventional hexavalent blue bright chromates.
- ❑ ***TASKEM Finidip 124:*** A specially formulated process, based exclusively on trivalent chromium compounds. When applied to a **XENITH** zinc deposit, ***TASKEM Finidip 124*** forms a uniform, bright film with a pronounced blue cast. The resultant film can provide up to 120 hours of corrosion resistance to white

rust.

Trivalent Passivate Technologies (Continued)

- ❑ **TASDIP TC-HP:** This chromate is based exclusively on trivalent chrome compounds. It forms a pronounced blue film on any type of electro-deposited zinc surface without the use of oxidizers, like hydrogen peroxide.
- ❑ **TASDIP TC-SA:** This single additive trivalent chrome concentrate produces a distinct blue cast and provides excellent corrosion protection on all types of zinc plated surfaces.

Black:

- ❑ **TASKEM Finidip 726:** A specially formulated liquid concentrate, based exclusively on trivalent chromium compounds, that produces a uniform black film on Zn/Fe and Zn/Fe/Co electroplated deposits. Used in conjunction with a **TASCOAT** organo-mineral topcoat, parts processed with **TASKEM Finidip 726** will provide up to 240 hours to white corrosion when tested according to ASTM B117. For best results, it should be applied to a **XENITH Performa Zn/Fe** and Zn/Fe/Co deposit containing 0.5% - 0.7% Fe.
- ❑ **TASDIP 5S071:** A specially formulated liquid concentrate, based exclusively on trivalent chromium compounds, that produces a uniform black film on Zn/Fe electroplated deposits containing 0.4-0.8% by weight Fe. The process is used in conjunction with **TASDIP TR-190**, a trivalent chromium post treatment. **TASDIP 5S071** will provide superior corrosion protection, without the use of a silicate-based topcoat.
- ❑ **TASKEM Finidip 728:** A specially formulated liquid concentrate, based exclusively on trivalent chromium compounds, that produces a uniform black film on Zn/Ni barrel electroplated deposits. Used in conjunction with a **TASCOAT** organo-mineral topcoat, parts processed with **TASKEM Finidip 728** will provide superior white corrosion protection when tested according to ASTM B117. For best results, it should be applied to a **XENITH Performa 280 Process Zn/Ni** deposit containing 12-15% Nickel.
- ❑ **TASDIP TR-185AB:** A specially formulated liquid concentrate, based exclusively on trivalent chromium compounds, that produces a uniform black film on *cyanide zinc electroplated* deposits. Used in conjunction with **TASDIP FT-190**, a trivalent chromium post treatment, **TASDIP TR-185AB** will provide up to 120 hours to white corrosion when tested according to ASTM B117.
- ❑ **TASDIP TR-185FG:** A specially formulated liquid concentrate, based exclusively on trivalent chromium compounds, that produces a uniform black film on *barrel chloride zinc electroplated* deposits. Used in conjunction with **TASDIP FT-190**, a trivalent chromium post treatment, **TASDIP TR-185FG** will provide up to 96 hours to white corrosion when tested according to ASTM B117.
- ❑ **TASDIP TR-185JK:** A specially formulated liquid concentrate, based exclusively on trivalent chromium compounds, that produces a uniform black film on *barrel alkaline non-cyanide zinc electroplated* deposits. Used in conjunction with **TASDIP FT-190**, a trivalent chromium post treatment, **TASDIP TR-185JK** will provide up to 120 hours to white corrosion when tested according to ASTM B117.
- ❑ **TASDIP TR-184FG:** A specially formulated liquid concentrate, based exclusively on trivalent chromium compounds, that produces a uniform black film on *rack alkaline non-cyanide and chloride zinc electroplated* deposits. Used in conjunction with **TASDIP 5S081** or **TASDIP 5S075**, trivalent chromium post treatments, **TASDIP TR-184FG** will provide up to 96 hours to white corrosion when tested according to ASTM B117.
- ❑ **TASDIP TR-186AB:** A specially formulated liquid concentrate, based exclusively on trivalent chromium compounds, that produces a uniform black film on barrel processed acid chloride zinc electroplated deposits. Used in conjunction with **TASDIP FT-190B**, **TASDIP TR-186AB** will provide greater than 168 hours to white corrosion when tested according to ASTM B117.

Top Coats/Torque-Tension Modifiers

- ❑ **TASCOAT Finigard 111:** A specially formulated organo-mineral liquid concentrate, used to impart increased corrosion protection and torque tension modification (0.11 +/- 0.03) to zinc and zinc-alloy electroplated surfaces. Developed to meet the demands of the automotive industry, it is designed to protect zinc and zinc alloy finishes against corrosion in a variety of environments, including, but not limited to, the hostile conditions found in engine compartments and on automotive exteriors. The process is suitable for bulk electroplating applications and can be used in conjunction with hexavalent chromates or trivalent passivates.

- ❑ **TASCOAT Finigard 105:** A specially formulated organo-mineral liquid concentrate, used to impart increased corrosion protection and torque tension modification (0.15 +/- 0.03) to zinc and zinc-alloy electroplated surfaces. Developed to meet the demands of the automotive industry, it is designed to protect zinc and zinc alloy finishes against corrosion in a variety of environments, including, but not limited to, the hostile conditions found in engine compartments and on automotive exteriors. The process is suitable for bulk electroplating applications and can be used in conjunction with hexavalent chromates or trivalent passivates.

- ❑ **TASCOAT Finigard 460:** A specially formulated organo-mineral liquid concentrate, used to impart increased corrosion protection to zinc and zinc-alloy electroplated surfaces. Developed to meet the demands of the automotive industry, it is designed to protect zinc and zinc alloy finishes against corrosion in a variety of environments, including, but not limited to, the hostile conditions found in engine compartments and on automotive exteriors. Depending upon the type of **XENITH** electroplating and **TASDIP** chromate or passivate being utilized, it can provide corrosion protection of up to 480 hours to the formation of white rust when salt sprayed according to ASTM B117.

Trivalent Chromium Post Treatments

- ❑ **TASDIP FT-190:** A specially formulated liquid concentrate, based exclusively on trivalent chromium compounds, that provides increased corrosion resistance when applied in conjunction with **TASDIP TR-185 (AB, JK, FG)**. When applied as a post treatment, parts processed with **TASDIP FT-190** will exhibit a glossy black finish and will provide up to 120 hours to white corrosion when tested according to ASTM B117. If additional torque tension modification is required, **TASDIP 5S077** can be added to the **TASDIP FT-190** solution.

- ❑ **TASDIP FT-190B:** A specially formulated liquid concentrate, based exclusively on trivalent chromium compounds, that provides increased corrosion resistance when applied in conjunction with **TASDIP TR-186AB**. When applied as a post treatment, parts processed with **TASDIP FT-190B** will exhibit a glossy black finish and will provide greater than 168 hours to white corrosion when tested according to ASTM B117. If additional torque tension modification is required, **TASDIP 5S077** can be added to the **TASDIP FT-190B** solution.

- ❑ **TASDIP 5S081:** is a specially formulated liquid concentrate, based exclusively on trivalent chromium compounds, that provides increased corrosion resistance when applied in conjunction with **TASDIP TR-184FG**. When applied as a post treatment, parts processed with **TASDIP 5S081** will exhibit a glossy black finish and will provide up to 120 hours to white corrosion when tested according to ASTM B117. If additional torque tension modification is required, **TASDIP 5S077** can be added to the **TASDIP 5S081** solution.

- ❑ **TASCOAT FR-96:** A mildly alkaline, organic liquid product used in the final hot water rinse tank to produce a solution that will produce a transparent coating that will impart a moderate degree of corrosion protection to ferrous and non-ferrous metal surfaces. It is especially useful as a topcoat on passivated zinc and zinc alloy electrodeposits.

- ❑ **TASCOAT Finigard Surfact:** A specially formulated wetter that can be added to **TASCOAT Finigard 105** and **TASCOAT Finigard 111** solutions to reduce surface tension and eliminate “tears” on difficult parts.

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