

PICKLEX® 20



INTERNATIONAL CHEMICAL PRODUCTS, INC.

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Green Technology

ONE STEP METAL PREP.

TECHNICAL DATA

Date: Mar 20, 2022

VALUE ADDED GREEN PRODUCT

TESTED/VERIFIED BY US EPA

Developed and MADE IN USA

Features/Benefits/Savings:

- Complete **Ready to Use, Water based, Value Added, EPA Tested Green Product and Processes**
- Works on all **Ferrous and Non-ferrous** metal surfaces including Galvanized steel and Stainless steel
- **Eliminates all hazardous/toxic chemicals** such as Solvent, Acid, Phosphate, Chromate etc. from metal surface preparation. **No EPA or OSHA regulation**
- **Eliminates Blasting/Sanding** of new **Cold rolled steel, Hot Rolled steel** (indoor or outdoor applications), **Aluminum, Galvanized steel** etc. before finishing (Priming, Painting, Electrostatic painting, Powder coating, Epoxy coating, Ceramic coating etc.). **Saves a lot of Labor, Time & Cost**
- **NOTE:** If Blasting is performed (for Re-painting job to remove old paint etc.), Near white or White Blasting is **not needed**. Only **Commercial blasting** (**SSPC-SP6**) or **Industrial Blasting** (**SSPC-SP14**) is needed, just up to the bare metal surface, **saving a lot of labor, time & cost**.
- **Very large coverage** (around 1600 sq. ft. per gallon). The **Unit Cost** comes out to be few Cents per Sq. Ft.
- **Product cost is Zero after use**, with a lot of savings of Labor, Time & Cost from Eliminating Blasting & Re-work
- **Completely Solves all quality failures** such as, **Welding failure, Adhesion failure** as well as solving the Rusting problem completely. Since 1998, there has been Zero Welding and Adhesion (bonding) failure, which reduced the **Re-work to Zero, saving a lot of labor, time & cost**. Always **exceeds the quality requirements**, because of **excellent surface preparation/pre-treatment**.
- **Indefinite Shelf Life** (did not spoil for last 24 years, stored indoor under shaded area). **No Wastage**

Performs the following Multiple jobs in One Step:

1. **Cleaner** – Removes mill oil & water based cutting fluid
2. **Rust remover:** Removes surface rust/oxidation without etching (surface stays intact). In dipping process, **Zero waste disposal**.
3. **Rust Inhibitor:** Provides more than **8 to 10 years** of Indoor Rust Protection.

4. **Rust/Heat scale Converter:** Converts **100% Rust/Heat scale** to a **Weldable & Paintable Conversion coating**
5. **Weld Prep.** (weld through coating): Provides much better welding than AWS or ASME code welding (increases weld strength considerably on cold rolled steel). Zero Weld failure (does not cause Hydrogen Embrittlement).

Note: For Hot rolled steel, the mill scale does not have to be removed and still better than AWS/ASME code welding.

6. **Anti-spatter**
7. **Complete Liquid Paint/Powder coating Prep.:** Completely provides the **surface preparation/pre-treatment at room/ambient temperature without rinsing in One Step (except for Powder coating, where Rinsing & Oven Drying are involved. Rinse water is not a Hazardous Waste)**, resulting in a **rust/contamination free metal surface and stops the oxidation process**. Provides **excellent adhesion even on edges, corners** including welding areas where the adhesion usually fails in the traditional process. Longer corrosion resistance (paint life) than the same paint job performed on a blasted surface.

For **Hot rolled steel (Indoor and outdoor applications)**, the mill scale does not have to be removed before Painting (**Painting Test passed 1000 hours of Salt Spray Test with Two-part Epoxy primer & Paint**).

High Temperature Coating: Withstands a very high temperature (around **2000°F**). **Note:** High temperature top coating such as, **Epoxy Coating, Ceramic coating** etc. can be applied over **Picklex® 20** coating. Also, where the painted surface is subjected to a very high operating temperature.

8. **De-scaler:** De-scales/Coat heat scale in **one step** dipping process with Zero waste disposal
9. **Replaces Wash Primer with Chromate and Alodine (Chromate conversion coating)**
10. **Stainless Steel Passivation:** Replaces Nitric acid Passivation. **Zero waste disposal.**

NOTE: Longer treatment time in **Picklex® 20** (dipping process) will provide longer term corrosion protection in steel.

Web Site : www.picklex20.com **Technical Support:** **Ph: 256-650-0088** e-mail: rsen@icpi.net

TECHNICAL INFORMATION

| Property | |
|--|--|
| Product name..... | Picklex® 20 |
| Color..... | Green |
| Phosphoric Acid..... | < 7% by volume |
| Flash Point..... | > 200°F |
| Boiling point @ 760 mm Hg..... | 275°F |
| Freezing point..... | - 40°F |
| PH..... | < 2 (still non-hazardous in nature) |
| V.O.C. (Volatile Organic Compounds)..... | < 0.01 lbs./gal (not traceable) |
| Storage temperature..... | Ambient |
| Loading/unloading temp..... | Ambient |
| Coverage | Around 1600 sq.ft. per gallon on bare metal surface |
| Shelf Life | Indefinite (keep indoors in a shaded area with cap closed) |
| Shipping | No special DOT regulation by ground transportation IATA & RoHs compliant (Can be shipped by UPS or Fed Ex, Class 55) |