



Black Matte, Concentrate

Black Treatment

Black Matte is a black treatment for use in immersion type zinc phosphate operations. Used in combination with hydrochloric acid to impart a black finish on steel.

Black Matte provides a rich black color treatment on steel when applied prior to a zinc phosphate coating treatment.

Black Matte does not deter from corrosion resistance performance of coated metal. Provides a highly decorative finish which is durable and corrosion resistant

Features & Benefits

- High solids liquid. Repeatable quality results.
- Low use cost. Long solution life.
- Easy to apply and use.
- Resistant to contaminants.
- Bath is easy to control and maintain.
- Coating can be removed in a strong alkaline soak bath. Equivalent to removal of the phosphate coating and acid cleaning.

Note: Do not overheat zinc phosphate bath when processing black for best results maintain temperature at 172 F.

Physical Data

pH	1
Product Type	Liquid
Spec. Gravity	1.238
lbs./gal.	10.32
Foam, 0 = Low, 9 = High	0
Shelf-Life Years	10 years
Freeze Information	Not damaged by freezing.

Typical Processing

1. Alkaline Clean
2. Rinse.
3. Hydrochloric Acid clean.



4. Rinse.
5. Black matte, 1/4-1%, 80-110F., 1-4 min, 1 RPM or slow rotation. Hydrochloric acid 10-14% to maintain acidity and clarity of bath.

Note:

- *Cloudy bath indicates: Too high of black or too low of acid.
- *Blotchy coating or misses - voids in black indicates: 2) Acid too strong over 20%.
- *CP-150 to pre-rinse at .01 - .05 % can eliminate voids spots.
- *Coating "rub-off": Too hot, time too long, strength too high.

6. Zinc phosphate, 600- 2,500 MG/FT. Temp 160- 180 (test per process).
7. Rinse.
8. Final treatment., Oil, Polymer, Lube. etc.

Packaging

Container Type	Poly dr. and pail.
Net Units	568
Tare Wt.	25 lb.
Gross Wt.	593
DOT_Name	UN 1789, Hydrochloric Acid, 8, PG II.
DOT Hazard	Corrosive.
Tarriff ID	2806.10.00

Use Parameters

Concentration Range	¼ - 2.5% + 12 – 18% HCL Acid
Temperature Range	75 - 110 F.
Time Range	30-120 seconds.
Agitation	Preferred, very mild if needed.

Waste Disposal

Neutralize, precipitate solids in wastewater treatment.

Holding Tank Materials of Construction

Poly, glass, brick, rubber (not steel or stainless).



Other Information

It is important that the OSHA DATA, "Material Safety Data Sheet" be carefully read and reviewed with the users of this product. OSHA data is required to be posted in the work area by law.

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