



TECHNICAL DATA SHEET

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INTREPID BAKING ENAMEL
TOPCOAT
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PRODUCT DESCRIPTION:

A ready-mixed, single-component Epoxy Based coating. This product is specifically formulated for maximum protection and corrosion control of metals.

TYPICAL PROPERTIES:

- (1). COLORS..... BLACK
- (2). **ELONGATION:**
Passes 1/8" conical mandrel method per ASTM D-522-60.
- (3). **SALT SPRAY FOG METHOD ASTM-117-73:** No blistering, cracking, softening or de-lamination of film. No rust creepage at scribe and no rusting at edges after 2000+ hours.
- (4). Excellent Corrosion Resistance
- (5). **PENCIL HARDNESS:** 4H
- (6). Excellent Solvent, Chemical and Heat Resistance.
- (7). Cures within 30 minutes at 350 degrees F.
- (8). **WEIGHT/GAL:** 8.65 lbs/gal
- (9). **SOLIDS (Volume):** 30-35%

APPLICATION AND REDUCTION:

- (1). Allow part to cool if masking is required. High temperature tape shall be used.
- (2). Adjust spray/dip consistency if needed with Chemsol 1000 thinner and stir well before dipping / spraying. Ideally no thinner should be used in either application.
- (3). Apply coating at 3 wet mils to reach a 1 mil dry film thickness. If two coats are needed to reach this thickness without sagging, then apply the coating without baking (just air dry 30 minutes between coats.)
- (4). Air dry coating for 30 minutes or until tack free. then bake in a **preheated** oven at 350 degrees F for 30 minutes.
- (5). Cool parts to room temperature and unmask as necessary.

STORAGE: Store indoors under normal conditions after from heat or flame. Temp: 40-90 Degrees Fahrenheit Shelf life under normal conditions is 6 months from Date of Manufacture.



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TYPICAL FILM POPERTIES:

Tensile (ASTM D882):	6200 psi
Cold Crack (ISO-17233):	<-30°C
Pencil Hardness (ASTM D3363):	4H
Sward Hardness (ASTM D2134):	32
UV Resistance (ASTM D4587):	No Damage (1000 Hours @ 340nm)
Impact Resistance (ASTM D2794):	No Damage @ 160 psi
Taber Abrasion (ASTM D4060):	11mg Loss (CS-10, 1000g, 1000 cycles)
Mandrel Bend (ASTM D522):	Pass 1/8"+
Hydrolysis Resistance:	Retained 80% of Tensile Properties (200 hrs, 70°C)

CHEMICAL RESISTANCE TESTING (ASTM D1308):

(Note: 5=no damage to films dried 15 minutes at 80°F, then equalized at room temperature for 7 days.)

Water:	5
Acetic Acid:	5
Ammonia:	5
Methyl Ethyl Ketone:	5
2-Propanol:	5
Toluene:	5
Gasoline:	5