

# B<sub>2</sub>C™ PROTECTOR

## BRASS, BRONZE & COPPER FINISH

**RICHARD JAMES**  
**Specialty Chemicals Corp.**  
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***B<sub>2</sub>C is a high-performance single-component aqueous urethane with proprietary anti-corrosion additives that delivers a tarnish-resistant, low-maintenance finish for commercial use.***

Formulated specifically for use on brass, bronze and copper. Typical indoor and outdoor application surfaces include: Railings ❖ Standing Brass/Metal ❖ Elevator Saddles and Cabs ❖ Doors/Entryways ❖ Fixtures ❖ Statues ❖ Window Trim/Frames ❖ Frames

**B<sub>2</sub>C delivers outstanding protection against tarnish.**

The finish is resistant to environmental vapors and skin acids that cause metals to darken. It is tough enough to inhibit oxidation that causes metals to corrode.

**B<sub>2</sub>C-finished metal needs very little upkeep.** Metal keeps shining for months longer than other finishes by simply wiping with StoneClean™ “60” Concentrate in dilution.

**B<sub>2</sub>C won't crack or craze.** The finish is flexible to accommodate the natural expansion and contraction of metal indoors, outdoors, and in all weather conditions.

**B<sub>2</sub>C is not a surface polish that rubs off.** The finish actually bonds to prepared metal during cure. And remains stable over time.

**B<sub>2</sub>C scratch-resistance is very high.** The finish is hard enough to prevent damage from everyday wear and tear.

**B<sub>2</sub>C is environmentally safe.** The finish is water-based, without volatile solvents, and does not emit noxious fumes on application.

**B<sub>2</sub>C won't yellow over time.** The finish can also be periodically spot retouched as needed.

**B<sub>2</sub>C reduces ongoing labor and/or materials costs.** B<sub>2</sub>C needs no stripping or multi-coat applications, and eliminates daily polishing required by wax “cleaners.”

**Application/Coverage:** The surface is cleaned and prepped with RJSC Prep & Polish™ (when 55°F or warmer). Within 30 minutes, B<sub>2</sub>C Protector is applied with HVLP sprayer, foam brush, or cloth wipe. It dries to durable protection in 4 - 6 hours; and achieves maximum hardness and protection within 4 days. Coverage rate is about 160 sq.ft./quart (or about 200 ft. of 3” diameter railings).

**Physical Properties**

pH	8.0	
Freeze/Thaw Stability	passes 5 cycles	
VOC by weight	100gms/liter	
Sward Hardness at cure	48	
Pencil Hardness	4H	ASTM D3363
Tensile Strength	8,500 psi	ASTM D412
UV 90-day exposure	no change	WSTM C1378
Gloss (60° Specular)	78	D523
Abrasion Resistance	40mgs loss	D4060
<small>(CS-17 Disk, 1000 grams, 1000 cycles)</small>		

**Chemical Resistance**

Toluene	1hr. immersion	no effect
Gasoline	1hr. immersion	no effect
Methylethylketone	100 double rubs	no effect
Glacial acetic acid	1 hr. spot test	slight sftning, recovers
1 N NaOH	1hr. spot test	no effect
Cleveland Cabinet Humidity Resistance <small>(100° F, 100% RH, 700 hrs.)</small>		
Rusting	ASTM D610	no effect
Blistering	ASTM D714	no effect
Salt Spray Resistance <small>(5% NaCl, 95°, 100 hrs. unscrubed)</small>		
Rusting	ASTM D610	trace (9)
Blistering	ASTM D714	few #2

**SUBJECT to RJSC MSDS and LIMITED WARRANTY**

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	<b>B<sub>2</sub>C PROTECTOR</b>	<b>TYPICAL CLEANERS</b>	<b>TYPICAL ACRYLIC</b>
<b>TARNISH RESISTANCE</b>	yes	none	no
<b>ADHESION TO METAL</b>	full bonding	no bonding	partial bonding
<b>SCRATCH RESISTANCE</b>	extremely high	no resistance	low resistance
<b>FLEXIBILITY</b>	high – no cracking	not applicable	cracks/breaks
<b>DISCOLORATION</b>	does not yellow	does not yellow	yellows
<b>STABILITY IN HEAT/COLD</b>	very stable	not applicable	unstable
<b>DAILY/WEEKLY CARE</b>	StoneClean™ “60” <sup>1</sup>	reapply daily/often	detergents
<b>LONG-TERM CARE</b>	periodic spot retouching	reapply daily/often	periodic total strip/reapp.
<b>ENVIRONMENTAL SAFETY</b>	no volatile solvents; no noxious fumes	typically contain volatile solvents and emit noxious fumes	

<sup>1</sup> Most standard metal cleaners contain “hostile” abrasives. Use of these cleaners will destroy the protection provided by B<sub>2</sub>C.