

B₂C™ PROTECTOR

BRASS, BRONZE & COPPER FINISH

RICHARD JAMES
Specialty Chemicals Corp.
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B₂C 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

B₂C 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.

B₂C-finished metal needs very little upkeep. Metal keeps shining for months longer than other finishes by simply wiping with StoneClean™ “60” Concentrate in dilution.

B₂C 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.

B₂C is not a surface polish that rubs off. The finish actually bonds to prepared metal during cure. And remains stable over time.

B₂C scratch-resistance is very high. The finish is hard enough to prevent damage from everyday wear and tear.

B₂C is environmentally safe. The finish is water-based, without volatile solvents, and does not emit noxious fumes on application.

B₂C won't yellow over time. The finish can also be periodically spot retouched as needed.

B₂C reduces ongoing labor and/or materials costs. B₂C 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, B₂C 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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	B₂C PROTECTOR	TYPICAL CLEANERS	TYPICAL ACRYLIC
TARNISH RESISTANCE	yes	none	no
ADHESION TO METAL	full bonding	no bonding	partial bonding
SCRATCH RESISTANCE	extremely high	no resistance	low resistance
FLEXIBILITY	high – no cracking	not applicable	cracks/breaks
DISCOLORATION	does not yellow	does not yellow	yellows
STABILITY IN HEAT/COLD	very stable	not applicable	unstable
DAILY/WEEKLY CARE	StoneClean™ “60” ¹	reapply daily/often	detergents
LONG-TERM CARE	periodic spot retouching	reapply daily/often	periodic total strip/reapp.
ENVIRONMENTAL SAFETY	no volatile solvents; no noxious fumes	typically contain volatile solvents and emit noxious fumes	

¹ Most standard metal cleaners contain “hostile” abrasives. Use of these cleaners will destroy the protection provided by B₂C.