



PRODUCT SPECIFICATIONS



PRODUCT NAME
ABR® 1ST STEP COPPER & BRASS PREWASH
ABR® 2ND STEP COPPER & BRASS BRIGHTENER

MANUFACTURER
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PRODUCT DESCRIPTION

1st Step Copper & Brass Prewash is designed to restore oxidized and discolored copper, brass, bronze and related metals. **1st Step Copper & Brass Prewash** will remove the green oxidation, known as patina, from aged copper, brass and bronze. **2nd Step Copper & Brass Brightener** is designed to restore brilliance to discolored copper, brass, bronze and related metals and is the follow up product of the **ABR 1st Step Pre-Wash**.

Limitations: copper surfaces will immediately change color after **1st Step Copper & Brass Prewash** is completed. **2nd Step Copper & Brass Brightener** cleaning ability is limited to lightly oxidized surfaces.

Precautions: read the entire material safety data sheet and product label for a more thorough evaluation of hazards. Fully protect all adjacent

surfaces. Prevent contact with eyes and/or skin. Wear rubber gloves to protect the skin and chemical splash proof goggles to protect the eyes while using the **ABR® Copper & Brass Restoration** products

TECHNICAL DATA

1ST STEP COPPER & BRASS PREWASH

Color/Form: brown liquid.
Coverage: approximately 50-100 sq. ft. per gallon depending on oxidation conditions.
Packaging: one, five and fifty-five gallon containers.

2ND STEP COPPER & BRASS BRIGHTENER

Color/Form: reddish orange liquid.
Coverage: approximately 200-500 sq. ft. per gallon depending on oxidation conditions.
Packaging: one, five and fifty-five gallon containers.

INSTALLATION

A test area should be completely processed before beginning overall project to determine procedures necessary for most effective cleaning of surface. Make sure to test with both **1st Step Copper & Brass Prewash** and **2nd Step Copper & Brass Brightener** and **ABR® Metal Polish**. User shall determine the suitability of the product for its intended use and assumes all risk and liability whatsoever in connection therewith. Follow all local, state, or federal disposal regulations when using this product.

Note: All 3 steps (prewash, brightener and metal polish) must be used in conjunction with one another within a set time interval. After the heavy green and black oxidation has been completely removed from a manageable area with the **1st Step Copper & Brass Prewash**, rinse with water and apply the **2nd Step Copper & Brass Brightener**. When the area has brightened, rinse with water. Immediately start to dry area with soft cloths. If excess water is on the surface or in standing seams use compressed air or shop-vac to clear the excess water. When the surface is dry, apply the **ABR® Metal Polish**. Hand polish or

rotary buff the surface to a desired shine. The **ABR® Metal Polish** will impart some protection of the surface from tarnish while the remainder of the surface is being restored. Spot polish with the **ABR® Metal Polish** in the event tarnish discoloration of the surface results before coating is applied.

1ST STEP COPPER & BRASS PREWASH

APPLICATION

1. Mix well before using.
2. Apply with acid-resistant brush in circular motion.
3. Re-apply until all traces of green, black or brown oxidation disappears.
4. After all traces of oxidation are removed, immediately wash with clean water until surface is completely free of any 1st Step acid or residue.
5. Immediately apply **2nd Step Copper & Brass Brightener** with a clean brush free from any **1st Step Copper & Brass Pre-Wash**. Presence of the **1st Step Copper & Brass Prewash** will render the **2nd Step Copper & Brass Brightener** ineffective. Provide separate application tools for the 1st and 2nd Step products.

2ND STEP COPPER & BRASS BRIGHTENER

APPLICATION

1. Mix well before using.
2. Apply with acid-resistant brush in circular motion. The reaction to the surface will be immediate. If no reaction is seen surface may need to be rinsed more thoroughly.
3. Re-apply until desired surface color is reached.
4. After desired surface color is reached, immediately wash with clean water until surface is completely free of any 2nd Step acid or residue.
5. Immediately start to dry area with soft cloths and **ABR® Metal Polish**. Please read installation notes on this spec sheet.



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AVAILABILITY

Available through distributors and dealers across the United States and Canada. **NOTICE:** the information and recommendations made herein are based on ABRP, Inc., research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because ABRP, Inc., cannot anticipate every possible application of ABRP, Inc., products, nor anticipate every variation encountered in project surfaces, job conditions, and methods used. For this reason, purchasers shall make their own tests to determine the suitability of such products for a particular purpose. Purchasers assume all risk of use, application and handling of products. Statements concerning the possible use of ABRP, Inc., products are not intended as recommendation to use ABRP, Inc., products in the infringement of any patent.

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TECHNICAL SERVICES

ABRP, Inc., employs in-field technical representatives to answer questions for architects, building owners and contractors.

REFERENCING

Catalog, product specifications, brochures, list of national registered historical landmarks restored with ABRP, Inc., products and video training tapes demonstrating a variety of cleaning and restoration projects being performed with ABRP, Inc. products are available upon request. For more information on many of the specialty building restoration products available to you, please see our home page at <http://www.abrp.com> or e-mail ABRP, Inc. at abrp@abrp.com.

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