

ABR[®]

PRODUCTS, INC.

Restoring, beautifying, preserving wood and stone surfaces.

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ABR[®] COPPER & BRASS CLEANERS PRODUCT SPECIFICATIONS

PRODUCT NAME

ABR[®] 1st Step Copper & Brass Prewash

ABR[®] 2nd Step Copper & Brass Brightener

**ABR[®] 3rd Step Metal Plate
ABR Metal Polish**

MANUFACTURER

American Building Restoration
Products, Inc.

9720 South 60th Street
Franklin, WI 53132
U.S.A.

(414) 421-4125
1-800-346-7532 (Orders Only)
Fax (414) 421-8696
www.abrp.com

PRODUCT DESCRIPTION

Basic Use: The three step **ABR[®] Copper & Brass** products are designed to restore oxidized and discolored copper, brass, bronze and related metals.

ABR[®] 1st Step Copper & Brass Prewash is the first step removing the green oxidation, known as patina, from aged metals.

ABR[®] 2nd Step Copper & Brass Brightener is the second step that removes the darker discoloration remaining on the metal surface, thereby cleaning and brightening the metals.

ABR[®] 3rd Step Metal Plate is the third step that protects the finish from oxidation and rapid darkening. It

imparts a gloss finish that prevents oxygen from reaching the surface, resulting in a long lasting shine. (To be used after **1st** and 2nd Steps have been completed)

ABR[®] 3rd Step Metal Plate is for all metals that require toughness and flexibility with outdoor durability protection. It is a non-ambering, ultra violet resistant, moisture cure, polyurethane protective coating.

ABR[®] Metal Polish is a rubbing compound that shines brass, bronze, and aluminum.

Limitations: copper surfaces will immediately change color after **ABR[®] 1st Step Copper & Brass Prewash** is completed.

ABR[®] 2nd Step Copper & Brass Brightener cleaning ability is limited to lightly oxidized surfaces.

ABR[®] 3rd Step Metal Plate will produce a shine but not a mirror-like finish. To create a brilliant shine, use **ABR[®] Metal Polish** before sealing with the **ABR[®] 3rd Step Metal Plate**. **ABR[®] 3rd Step Metal Plate** will not hide imperfections.

Precautions: read the entire material safety data sheet for a more thorough evaluation of hazards. When working with **ABR[®] 3rd Step Metal Plate** always have adequate ventilation. Any moisture entering the **ABR[®] 3rd Step Metal Plate** container will make it defective. Fully protect all adjacent surfaces including plants/shrubbery and surrounding

buildings. Note: **ABR[®] 2nd Step Copper & Brass Brightener** will stain if allowed to spill on any porous surfaces.

TECHNICAL DATA

ABR[®] 1st Step 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.

ABR[®] 2nd Step 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.

ABR[®] 3rd Step Metal Plate

Color/Form: clear liquid.

Coverage: approximately 200 -300 sq. ft. per gallon. (Always apply two coats).

Packaging: one and five gallon containers.

ABR[®] Metal Polish

Color/Form: pink cream.

Coverage: approximately one 16 oz. can will cover 500 to 800 sq. ft.

Packaging: 16 oz. and 32 oz. containers.

INSTALLATION

A test area should be completely processed before beginning overall project to determine precise procedures necessary for most effective cleaning of surface. Make sure to test with both **ABR® 1st Step Copper & Brass Pre-Wash** and **ABR® 2nd Step Copper & Brass Brightener**.

User shall determine the suitability of the product for its intended use and assumes all risk and liability whatsoever in connection therewith.

Failure to restore applicable surfaces in any manner than what is described within this specification sheet is not recommended.

Note: All 3 steps must be used in conjunction with one another within a 30 minute interval. Therefore, work small areas at a time!

ABRP, Inc., offers a video providing a comprehensive, on the job, step-by-step restoration of a copper dome cleaned and sealed with the CFS products.

ABR® 1st Step Prewash

1. Mix well before using.
2. Apply with synthetic acid brush in circular motion.
3. Re-apply until all traces of green or brown oxidation disappears.
4. After all traces of oxidation are removed, immediately wash with clean water until surface is completely free of any acid suds or residue.
5. Immediately apply **ABR® 2nd Step Copper & Brass Brightener** with a clean brush free from any **ABR® 1st Step Copper & Brass Prewash**.

ABR® 2nd Step Brightener

1. For best results, use **ABR® 2nd Step Copper & Brass Brightener** full strength; however, product can be diluted up to 20 parts water to 1 part **ABR® 2nd Step Copper & Brass Brightener**. Please note that the more the product is diluted, the slower it will work. Mix well before using.
2. Apply a thin coat (enough to wet the surface) with synthetic acid brush or hand sprayer.
3. **ABR® 2nd Step Copper & Brass Brightener** will begin to work immediately. As soon as oxidation removal is complete, rinse surface with clean water using low pressure.

NOTE: ABR® 2nd Step Copper & Brass Brightener is designed to clean copper and brass. It does not produce a

gloss or sheen. If mirror-like uniform finish is desired, it will be necessary to follow up with **ABR® Metal Polish**. Once the desired finish is achieved, seal with **ABR® 3rd Step Metal Plate**.

ABR® Metal Polish

1. Apply as a rubbing compound with a power buffer on an electric drill at 1500 to 1700 rpm or by hand with medium steel wool.
2. To hold a shine always use **ABR® 3rd Step Metal Plate**.

ABR® 3rd Step Metal Plate

1. **Surface must be completely dry** and free of any dust or other surface contaminants before applying. **If necessary, dry surface with compressed air.**
2. Apply **ABR® 3rd Step Metal Plate** with a natural bristle paint brush or conventional air pressure cup gun **immediately after ABR® 2nd Step Copper & Brass Brightener** is used and polishing is completed.
3. **A minimum of two coats**, 15 minutes apart must be applied for adequate protection,

Once surface has been fully protected, it will hold a long lasting shine with gradual change over a period of years. Total product life expectancy before **recoating** is estimated at 8-10 years.

Clean up: immediately use toluene or acetone to clean equipment **and/or** brushes after applying **ABR® 3rd Step Metal Plate**.

AVAILABILITY

Available through a network of distributors, dealers and representatives established in principal cities across the United States, Canada and Japan.

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.

LIMITED WARRANTY

This warranty is valid for one year

from the date of purchase. The purchaser of this product shall be entitled to the following, if the product herein is shown to be defective: **ABRP, Inc.,** at its option, will either replace the product or refund the purchase price. Contact **ABRP, Inc.,** to make claim under this warranty. The purchaser must have proof of purchase from label and original sales receipt. Proper surface preparation is essential to the applicability of this warranty. Read and follow label directions.

ABRP, Inc., shall not be liable for incidental, consequential or indirect damage arising from the use of this product or the cost of labor involved in its application.

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

No other warranties are made, expressed or implied, including without limitation warranties as to MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

This limited warranty may not be modified or extended by manufacturer's representatives, distributors or dealers of **ABRP, Inc.,** products.

Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to the purchaser. This warranty gives the purchaser specific legal rights, as well as, other rights which may vary from state to state.

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 are available upon specific request.

ABRP, INC., is on the WORLD WIDE WEB. 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@execpc.com.

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