

**Bonded Materials Company** • 91-400 Komohana St. • Kapolei, Hawaii 96707-1716 • Phone (808) 673-2000 • Fax (808)673-2020

## RESURFACES

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- ◆ Decks
- ◆ Walls
- ◆ Floors
- ◆ Sidewalks
- ◆ Pavements
- ◆ Overheads

## APPLY OVER

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- ◆ Concrete
- ◆ Wood
- ◆ Metal
- ◆ Terrazzo
- ◆ Asphalt
- ◆ Coatings
- ◆ Adhesives

## DESCRIPTION

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PRO-SURFACE is a two-component, acrylic polymer modified cementitious product, for use as a resurfacing underlayment or as a finished floor coating. PRO-SURFACE is a liquid acrylic polymer and PRO-SURFACE POWDER is a select blend of portland cements and silica sand. Its adhesion and flexibility characteristics allow application to a wide variety of surfaces to produce a new, bondable surface compatible with essentially all types of adhesives and coatings. PRO-SURFACE is available in standard dark gray.

## USES

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PRO-SURFACE mixture is a primerless system, ideal for resurfacing old, worn or rough surfaces. It will adhere to virtually all types of surfaces, even “difficult” surfaces such as metal and terrazzo. PRO-SURFACE mixture will feather to a “zero edge” without losing strength or adhesion. PRO-SURFACE is extremely versatile, and by adapting mixture proportions, it can be used in a wide variety of horizontal and vertical applications such as: resurfacing decks, walls, roofs, and buildings; filling cracks, joints, and potholes; and resurfacing floors, sidewalks and pavements.

## LIMITATIONS

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PRO-SURFACE mixture will not adhere to standing oil or grease, or to puddles or pools of standing water. Certain aggressive stains such as proteins, hydraulic fluids, and animal waste by-products may appear on the resurfacer as “shadowing”. Adhesion and durability are not affected.

## SPECIFICATIONS

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PRO-SURFACE LIQUID is a proprietary blend of polymers. When combined with PRO-SURFACE POWDER, the PRO-SURFACE mixture becomes a highly mobile, thinbond resurfacer that is easily workable, but with controlled sag and flow characteristics.

Appearance	Milky White
Solids	25%
Specific Gravity	1.02
Pounds per Gallon	8.52



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Flash Point	None
Toxicity	Non-toxic
Odor	Mild, Sweet
VOC	Contains NO volatile organic compounds or solids

## APPLICATION

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**TOOLS, EQUIPMENT AND MATERIALS:** Tools and equipment requirements are largely dependent on the project. Common to most projects are: variable speed drill, mixing paddle, eye goggles, polyethylene sheeting (and/or rosin paper), duct or reinforced tape, graduated measuring containers, empty containers for mixing and cleanup, garden hose, gloves and rags. Application tools depend on the project, and can or may include squeegees, hopper guns, trowels, drywall knives, brushes and rollers. Suggested prep, cleanup and trimming tools include scrapers, drywall knives, hammers, chisels, brooms, dustpan and vacuum. Additional specialty tools may be necessary, depending on the type and extent of preparation required.

**SURFACE PREPARATION:** Surface must be clean sound and free of standing water (PRO-SURFACE mixture will not properly adhere to puddles or pools on the surface). Remove surface bumps and imperfections with scrapers. Vacuum or sweep up loose dirt, dust and debris.

**CAUTION:** Although PRO-SURFACE mixture will bond tenaciously to foreign materials stuck to the substrate, keep in mind that the ultimate bond-strength of the resurfacer can only be as strong as the bond and the strength of the foreign material. Remove all materials that are soft, flaky, dusting or chalky. Remove all materials that may have low internal strength (e.g. bond-breakers, form release agents, gypsum-based materials) and remove all materials that may have a weak bond to the substrate.

If glossy coatings or surfaces are to be resurfaced, they should be roughened by mechanical means to provide a surface texture that can be confirmed by touch and sight. The surface should look very scratched up.

Standing surface oil or grease requires special attention. Scrape and/or wipe surface as clean as possible. Scrub area with an industrial or laundry-type detergent. Rinse well with clean water.

Protect all surfaces not intended for resurfacing with reinforced tape and polyethylene sheeting (or rosin paper). PRO-SURFACE mixture sticks tenaciously to most everything. Should PRO-SURFACE mixture get on surfaces unintentionally, remove IMMEDIATELY with water and rags. If allowed to harden, removal may not be possible without damaging the surface.

PRO-SURFACE will produce an unyielding welded bond to virtually all surfaces, but is only as good as the substrate it is bonded to. Soft, flaky, friable surfaces should be properly repaired or prepared prior to applying PRO-SURFACE. If moisture or signs of moisture are evident prior to applying PRO-SURFACE, repairs should be made prior to application.

**MIXING:** Recommended Proportions (by volume): **For resurfacing:** 1 part PRO-SURFACE LIQUID, 1 part PRO-SURFACE POWDER. **For deep fills:** 1 part PRO-SURFACE LIQUID, 2 parts PRO-SURFACE POWDER. Mix PRO-SURFACE LIQUID. Add PRO-SURFACE POWDER, while mixing continuously. Continue mixing until free of lumps. Immediately wash mixing equipment or place in water for cleaning later.



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**Note:** Applicator must determine the suitability of mixture consistency with method and purpose of application. Additional amounts of PRO-SURFACE POWDER may be added to thicken the mixture while mixing continuously until free of lumps. Moving cracks and joints should never be filled with rigid or semi-rigid materials.

**PRECAUTIONS:** Do not allow PRO-SURFACE mixture to air-dry on tools or equipment. Use PRO-SURFACE mixture as soon as possible after mixing. Unused mixture left in mixing container should be covered and kept in a cool place. Do not leave exposed to direct sunlight. Pot life is approximately 2 hours. If mixture does not quickly return to its original fluid state, discard.

**APPLICATION:** For indoor or cool, shaded areas, apply PRO-SURFACE to dry substrates when substrate temperature is 80°F or less. For application in warmer conditions, cool the surface as necessary by spraying it with fresh, clean water. Ideally, concrete will be saturated with water, cool, but with no water on the surface (SSD, Surface-Saturated-Dry). Do not apply mixture in the air temperatures or on surfaces below 50°F.

PRO-SURFACE mixture will begin to dry and harden within a few minutes after spreading. Time required to completely dry will depend on temperature, humidity. Hardening will take longer in shaded areas and indoors, and in holes and cracks. Increased ventilation (e.g. fans moving air) will shorten drying time.

Application should be made with tools suited for the project. Start with small amounts of mixture until familiar with its handling. After application, IMMEDIATELY clean all equipment with water or with soap and water.

As soon as PRO-SURFACE mixture is firm enough to walk on without leaving marks, trim and smooth lumps, squeegee marks and brush marks with scraper or drywall knife. Don't wait too long.

To ensure effective performances, minimum 2-coat coverage is recommended. 3 or more coats may be necessary to smooth very tough or pitted surfaces. Minimum 3 coats are required over cutback (petroleum distillate) adhesives and coverings containing asbestos or lead.

**POST APPLICATION PROTECTION:** Protect treated surfaces from exposure to water for at least 4 hours. Water may cause a white film to form on the surface. This affects appearance only. Adhesion and durability are not affected. Immediately after it is dry, and unless a covering is to be installed over PRO-SURFACE, a water-base coating is recommended to protect against staining. **Caution:** Solvent-based coatings may soften PRO-SURFACE.

## LIMITATIONS

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The minimum recommended application temperature is 45°F; temperature must remain at or above 45°F for at least 48 hours. High humidity and excessive moisture will retard curing time. Do not use in enclosed areas where air circulation is limited. Prolonged freezing may damage contents. Material may be used after freezing if it is allowed to thaw at room temperature and can be stirred to an even, smooth consistency. DO NOT USE PRO-BOND IN AREAS THAT ARE CONTINUALLY EXPOSED TO WATER, SUCH AS SWIMMING POOLS.

## COVERAGE AND PACKAGING

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One gallon of PRO-SURFACE LIQUID, mixed according to the recommended mix proportions of PRO-SURFACE POWDER, will provide 2-coat coverage to approximately 80-100 square feet. Coverage may be significantly less on spalled, damaged and textured surfaces.



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On smoother surfaces such as terrazzo or metal, coverage may be more.

PRO-SURFACE LIQUID 1 gallon. PRO-SURFACE POWDER 25 lbs.

## COLORS

PRO-SURFACE comes one standard color of concrete gray.

## TEST RECAP

### Bond Strength (ASTM D4541)

With common portland cements

Range: 414-466 psi

Average: 434 psi

### Abrasion Resistance

1,000 cycles, H-22 Calibrate

wheel – Average depth of wear: 24 mils  
(roughly equivalent to 5000 psi concrete)

### Smoke and Toxic Fume Emission

(British Standard 6853)

Accepted (negligible emission)

### Skid Resistance

(British Pendulum Test)

Dry: .65, Wet: .58

### Weathering (ASTM G 43 – modified to include freeze cycle)

After 31 cycles (5,208 hours), no sign of peeling, chalking, blistering, loss of adhesion, fading or algae growth.

## BONDED MATERIALS COMPANY

Bonded Materials Company pioneered the use of concrete admixtures in the concrete industry throughout Hawaii. Today, we're Hawaii's leading distributor of a wide range of high quality concrete-related products for the construction, maintenance, repair and restoration industries. From Phoenix, Arizona through Hawaii to Guam and Saipan, we've become the primary source of these products for thousands of satisfied customers. Locally manufactured in Arizona and Hawaii products – such as concrete admixtures, concrete color hardeners, liquid bonding adhesives, high strength grouts, thinset mortars and colored grouts - augment our product offering. At Bonded Materials Company, we strive to give customers real value. We do this by working diligently with customers to improve their productivity through the intelligent use of our products and services.

## SALES OFFICES

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Ph: (808) 832-1155  
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### SAIPAN

P.O. Box 505894 C.K.  
Saipan, MP 96950  
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### GUAM

P.O. Box 7086  
Tamuning, Guam 96931-7086  
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### PHOENIX, ARIZONA

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## **GUARANTEE**

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Recommendations for the use of this product are based on tests we believe to be reliable. Bonded products will perform according to specifications and technical recommendations when applied as directed. Bonded is not responsible for results where the product is used under conditions beyond our control. Under no circumstances will Bonded Materials Company be liable for damages to anyone in excess of the purchase price of the product.

**Bonded products are intended for industrial use only. Keep away from children. Observe product caution.** Every reasonable precaution is taken in the manufacture of our products and compiling of data to assure that they shall comply with exacting standards. Information given is correct to the best of our knowledge and the products, as sold, are satisfactory for the purpose proposed. However, no guaranty of the results, using these products and data, is given because every possible variation in the methods of their use or conditions under which they are applied cannot be anticipated. Not responsible if the material should be used in a manner to infringe any patent held by others.