

**Project****Damp-proofing Concrete and Masonry**

Whether new or old, concrete and masonry walls and structures, particularly basements, should be treated with a water-resistant coating to control the entry of water and moisture that will lead to deterioration and damage.

QUIKRETE® Heavy Duty Masonry Coating is designed for damp-proofing and beautifying concrete and masonry walls. Another alternative is the use of trowel applied QUIKRETE® Surface Bonding Cement. More information on QUIKWALL® Surface Bonding Cement is available at [QUIKWALL® Surface Bonding Cement](#). This product is formulated for use on all interior and exterior walls, either above or below grade. This product is not for use on floors.

QUIKRETE® Heavy-Duty Masonry Coating is a portland cement-based products that is mixed with water to a brushable consistency and applied. QUIKRETE® Heavy-Duty Masonry Coating is reinforced with water repellent chemicals to provide a water-resistant coating.

Basement Walls**Required Tools & Materials**

- QUIKRETE® Heavy-Duty Masonry Coating
- QUIKRETE® Concrete and Asphalt Cleaner
- QUIKRETE® Hydraulic Water-Stop Cement (as needed)
- Large mixing vessel
- Heavy-duty masonry brush
- Wooden stirring paddle
- Wire brush
- Scraper Hose with spray nozzle
- Paint roller or spray equipment (optional)
- Household bleach or muriatic acid (as needed)

Step by Step

Damp basement walls can be caused by either condensation on the inside or water penetration through the wall from the outside. To see if condensation is the problem, tape a 1'-square piece of aluminum foil to the wall with all four sides of the foil airtight. Keep the foil on the wall for 2 days, then remove and examine it. If the outside of the foil is moist, the problem is condensation.

This can be corrected by installing a dehumidifier or by increasing the ventilation in the basement. If, on the other hand, the foil that was facing the wall is wet, the problem is water penetration.

Locating and Repairing Leaks

1. Inspect the walls to locate the source of the leak. Sources might include downspout gutters and soffits that are directing water against the wall from the outside. Shut off or redirect the water flow away from the wall, if possible.
2. Large cracks and leaks in the wall must be repaired before the coating or paint is applied. Use QUIKRETE® Hydraulic Water-Stop Cement to make the repairs.

QUIKRETE® Masonry Coating

Proper surface preparation is very important before applying QUIKRETE® Heavy-Duty Masonry Coating.

1. If the surface is new, scrub it with a wire brush and rinse it with water. If the surface is especially smooth (poured concrete, for example), etch the surface with a 20% to 25% solution of muriatic acid, then rinse, or add QUIKRETE® Concrete Acrylic Fortifier to the mix as outline in Step 4.
2. If the masonry surface is old or if it has been covered with paint or some other coating, it must be cleaned thoroughly before applying the QUIKRETE® Heavy Duty Masonry Coating. Remove all loose mortar, dirt, and paint with a wire brush or scraper. At least 75% of the original masonry surface should be exposed. Scrub dirty walls with a wire brush and QUIKRETE® Concrete & Asphalt Cleaner and rinse thoroughly.
3. Mix QUIKRETE® Heavy-Duty Masonry Coating in a clean, large container, using clean, cold water. Add approximately 1-1/2" gallons of water for every 40-pound bag of QUIKRETE® Heavy-Duty Masonry Coating.
4. When applying over smooth, nonporous surfaces, QUIKRETE® Concrete Acrylic Fortifier should be used as part of the mix liquid. Substitute 2 quarts of fortifier for 2 quarts of water in Heavy-Duty Masonry Coating mixes.
5. The mix will thin out slowly, so do not be tempted to add more water to the mix. Mix only enough material that can be applied in 2 hours.
6. Allow the mix to set for 20 minutes before application. Stir thoroughly just before beginning work and frequently as work proceeds.
7. Dampen the surface of porous walls before application. Wetting of smooth nonporous surfaces is not recommended.
8. Use a course fiber brush about 6" in width to apply the coating

to the wall. Scrub on the paint with a firm circular motion.



9. During hot, dry weather, fog spray the coating several times to prevent rapid setting.

10. Two coats of QUIKRETE® Heavy Duty Masonry Coating are recommended. The second coat should be applied 12 to 48 hours after the first. Fog spray the first coat before applying the second coat. **DO NOT** fog spray or wet down the final coat after application.

For Best Results

- Add mix to the water; don't add water to the mix.
- To maintain color uniformity, use the same amount of QUIKRETE® Concrete Acrylic Fortifier in each batch of QUIKRETE® Heavy Duty Masonry Coating.
- Do not use too much mix water, or the material will thin out too much.