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Project Restoring Concrete and Masonry Walls with QUIKWALL®

QUIKWALL® Surface Bonding Cement adds strength, durability, and water resistance to walls made of concrete, concrete or cinder block, brick, terra cotta tile and stone. It is an ideal material for restoring and/or beautifying buildings, walls and chimneys. QUIKWALL® Surface Bonding Cement is also an excellent coating material for cisterns and other concrete water holding tanks. It can be used to repair silos and other farm buildings.

QUIKWALL® Surface Bonding Cement can be applied over porous and nonporous (smooth) concrete and masonry walls. However, when applying over smooth surfaces, QUIKRETE® Concrete Acrylic Fortifier must be used as part of the mix water.

Required Tools & Materials

- QUIKWALL® Surface Bonding Cement
- QUIKRETE® Concrete Acrylic Fortifier (nonporous surfaces)
- QUIKRETE® Hydraulic Water-Stop Cement (as needed)
- Mixing equipment
- Trowel
- Hose with spray nozzle or large sponge
- Brush

Step by Step

Buildings

QUIKWALL® Surface Bonding Cement is very effective in restoring older buildings whose walls have begun to crack and loosen from the effects of time. A 1/8" coating of QUIKWALL® SBC on the outside of the walls makes them practically impermeable to cold air drafts, so it is particularly suited for the renovation of horse barns and other farm buildings.

1. Clean all walls thoroughly to remove all paint, oil, dirt and other foreign matter that can interfere with the bonding of QUIKWALL® Surface Bonding Cement.
2. Mix the QUIKWALL® SBC using 1-1/4 to 1-1/2 gallons of clean water to each 50-pound bag of material. Always add the powder to the water. If a power mixer is used, do not mix for more than 3 minutes. Note: If the QUIKWALL® SBC is being applied to a nonporous surface, such as smooth concrete, brick, or terra cotta tile, substitute QUIKRETE® Concrete Acrylic Fortifier as part of the mix liquid.



Add ½ gallon of fortifier per 50-pound bag of Surface Bonding Cement.

3. On porous walls, wet the wall surface with a fine spray mist or

use a heavy sponge to dampen the surface prior to applying the QUIKWALL® SBC.



4. Load the finishing trowel with a good amount of mix. (Insert Image)



5. Apply a 1/8" thick coating of QUIKWALL® SBC to the wall. Work from bottom to top, using an upward sweeping motion.



6. Push the material into any cracks and broken areas of the wall. Texture-swirl the material as you apply. Do not wait to give QUIKWALL® SBC its final finish.



7. Moist-cure the walls after 8 hours by dampening them with a fine spray. Repeat several times daily for 3 days.

Cisterns, Holding Ponds and Other Water-Holder Tanks

Because QUIKWALL® SBC is highly water-resistant, it can be used as a lining on cisterns, holding ponds and other water-holding tanks to prevent water loss. It is approved for use with potable water, so it's perfectly safe for both humans and animals. Be sure the surface is completely clean and dry before beginning the application, then apply the QUIKWALL® SBC as described earlier. When the QUIKWALL® SBC has completely dried, brush on a coat of QUIKRETE® Masonry Coating.

Note: If large cracks exist on the walls of the structure, it is recommended to first patch them with QUIKRETE® Hydraulic Water-Stop Cement. When the cement has dried completely, begin applying QUIKWALL® SBC over the entire surface.

Silos

QUIKWALL® SBC provides the best protection against the acid that commonly forms in silos. Keep in mind that for the QUIKWALL® SBC to bond well, surface preparation is especially

important in this application.

1. Clean the interior walls of the silo to remove the accumulated acid crust.
2. Remove the remaining traces of acid by washing the walls with lime water, then go over them again with plain water. Allow them to dry completely before beginning the QUIKWALL® SBC application. If the silo walls are smooth and nonporous, use QUIKRETE® Concrete Acrylic Fortifier as part of the mix water.



3. Apply the QUIKWALL® SBC in the same manner as described earlier. When relining silos, it is very important that the walls be troweled extra smooth to minimize the occurrence of small pockets where future acid crusting could originate.

Chimneys

Without a doubt, chimneys must withstand a great deal of abuse from the elements. And while tuck-pointing repairs helps restore them to good condition, the improvement is only temporary. To do a job that will last, coat the entire part of the chimney that extends above the roof with an 1/8" coating of QUIKWALL® SBC. Its high strength and water-resistant properties are ideal for combating wind, rain, ice and snow.

For Best Results

- Machine mix if at all possible.
- Do not apply QUIKWALL® Surface Bonding Cement if temperatures will exceed 100° F or fall below 40° F within a 24 hour period.
- Do not add winter admixtures or other additives to the mix, except QUIKRETE® Concrete Acrylic Fortifier when needed.
- Do not allow premature drying of the coating, which can lead to cracking and other failures. Cure properly.