



TECHNICAL BULLETIN

Copyright © TEXAS CEMENT PRODUCTS, INC.

RE: Efflorescence and mineral film removal with C-Clean - a sulfamic acid cleaner..

This bulletin outlines the procedure for removing efflorescence from colored cementitious grout joints. For causes and prevention of efflorescence, please see TexRite Technical Bulletin #211.

Texas Cement recommends the removal of efflorescence from cement based grout joints with **C-Clean**. **C-Clean** is a sulfamic acid based cleaner that is provided in granules that are mixed with water on the jobsite. **C-CLEAN** does not cause hazardous or corrosive transport, handling or storage problems and a properly mixed solution produces a safer and better alternative than muriatic acid for cleaning tile and grout surfaces. Properly mixed **C-CLEAN** does not produce toxic fumes, damage chrome or steel surfaces, bleach or burn grout joints.

The grout must be cured minimum of 10 days and exhibit the proper hardness prior to applying **C-CLEAN**. Do not use **C-CLEAN** on marble, limestone or travertine installations and do not use **C-Clean** on acid sensitive grout colors; #11 Agave, #12 Big Thicket, #15 Blue Norther, #37 Morning Mist, #41 Sea Foam, #86 Ocean Blue, #104 Jasper and #140 Black Jade. For specific cleaning procedures on these colors, contact the Texas Cement Technical Department - 800-669-0115.

Always test for results in a small inconspicuous area and allow to completely dry before evaluation.

Use **C-Clean** in well ventilated areas to avoid accumulation of vapors that may harm chrome or stainless steel in the area being cleaned.

Mixing

Use 8 ounces of **C-CLEAN** granules to 1 gallon of water. Mix slowly to avoid inhaling fine particulate matter. Water should be room temperature. Mixing with hot water will produce a mixture that is too strong and may damage tile or grout.

Application

After the grout has cured sufficiently (10 days after installation minimum) proceed as follows:

- 1 Saturate the grout joints with water. Filling the pores and capillaries of the grout will keep the grout joints from absorbing the acid cleaning solution once it is applied. Remove standing water.
- 2 Next, apply the properly mixed **C-Clean** solution over surface to be cleaned. Allow solution to dwell a few minutes.
3. Scrub with a stiff nylon brush or Scotch-Brite pad. Do not use wire brushes.
- 4 Rinse well with fresh water. Be sure that the resultant acid sludge is rinsed off and or wet vacuumed from surface thoroughly.

A second application may be required depending on the degree of efflorescence.

Always observe product precautions and wear appropriate safety equipment.

TB212-112807

The information in this bulletin is presented in good faith, but no warranty, express or implied, is given nor is freedom from any patent in as much as any assistance furnished by Texas Cement Products, Inc. with reference to the safe use and disposal of its products provided without charge. Texas Cement Products, Inc. assumes no obligation or liability therefore, except to the extent that any such assistance shall be given in good faith.

TEXAS CEMENT PRODUCTS, INC.

4000 Pinemont
Houston, Texas 77018 USA

Phone: 713-682-8411
Toll Free: 800-669-0115
Fax: 713-688-2448
texrite.com & texascement.com