



APPLICATION PROCEDURE

CRETE-GUARD™ • CRETE-CLEAR™ STAIN ACRATHANE™ • ACRACTLEAR™ PAINT AQUAKOTE™ • AQUACLEAR™

GENERAL CONCRETE SURFACE

APPLICATION PROCEDURE
#CON-G
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01/01/10
superseding: 07/24/09

MATERIAL ESTIMATION:		<i>Material Estimations are Approximate and Can Differ from Job to Job And Are Not guaranteed to be Correct Due to Many Variables.</i>
CHLORINE & WATER	1 Quart chlorine per 100 square feet	
PERMAPATCH™ Concrete/Masonry Patch	1 Gallon fills 144 cubic inches	Caulk and Seal all cracks 1/8" or greater
Muriatic Acid	Follow the product directions and precautions on the Container.	
CRETE-GRIP™	200 - 300 square feet per gallon	1 Coat Strongly recommended; See Criteria Below
CRETE-GUARD™	250 - 350 square feet per gallon	2 Coats Required; See Criteria Below
CRETE-CLEAR™	300 - 400 square feet per gallon	2 Coats Required; See Criteria Below
ACRATHANE™	250 - 350 square feet per gallon	2 Coats Required; See Criteria Below
ACRACTLEAR™	300 - 400 square feet per gallon	2 Coats Required; See Criteria Below
AQUAKOTE™	250 - 350 square feet per gallon	2 Coats Required; See Criteria Below
AQUACLEAR™	300 - 400 square feet per gallon	2 Coats Required; See Criteria Below

PRODUCT LIABILITY:

These are Use-At-Your-Own-Risk products since multiple unforeseen variables (hydraulic pressure, chemical stains, previous coatings, deficient, sandy, dense, smooth and/or non-porous surfaces) and weather conditions (temperature, humidity, moisture, rain) can not be controlled. CRETE-GUARD™, CRETE-CLEAR™, ACRATHANE™, ACRACTLEAR™, AQUAKOTE™ and AQUACLEAR™ have no warranty; user assumes all risks and liability associated with the application of this product.

TEST TO DETERMINE PREVIOUS COATING:

To determine if the coating on a previously painted surface is solvent based or latex based, put denatured alcohol on a rag and rub surface. If coating comes off on rag, the surface is latex based.
 If previously painted surface is solvent based, it must be cleaned and sanded prior to application of latex based product.

GETTING STARTED:

All coatings must be stirred manually or mechanically before being used (except for PERMAPATCH™). Do not let products freeze. Do not use any of these products at temperatures below 40 degrees Fahrenheit. Apply all products to dry surfaces only and do not apply products when they will be subjected to rain, high humidity or heavy dew before they have had enough time to dry (check Product Data Sheets).

VISUAL INSPECTION:
 The substrate to be coated must be in SOUND condition. Physically inspect the surface area for loose, missing or damaged materials. Replace and/or repair all damaged areas back to sound and solid condition. Deficient and/or sandy concrete may need to be concrete sanded to expose a sound surface. Fresh concrete must cure 28 days before being coated. To insure compatibility over a previously coated surface, coat a small area and check after 48 hours for penetration and adhesion.

SURFACE PREPARATION and PRESSURE CLEANING:
 For proper adhesion and penetration it is essential that the surface be properly prepared. Surface must be pressure washed with at least 1500 P.S.I. of pressure using a water and chlorine solution (approx. 1 qt. of chlorine to 5 gal. of water). Thoroughly remove all dirt, oil, grease, residues, mold, mildew, algae and any other surface contaminants. Severe mildew requires a stronger concentration of chlorine. TSP (Tri-Sodium Phosphate) should be used to clean oil and grease stains.

MURIATIC ACID CONCRETE ETCHING:

- **BROOM FINISH:**
Pressure wash only.
- **SMOOTH TROWELED CONCRETE SURFACES: (Garage Floors, Interior Warehouse Floors, Etc.)**
Smooth surfaces must be acid etched to insure proper penetration. Visible pores in uncoated concrete must appear before applying the product. Repeat acid etching until visible pores appear in surface. (Surface should feel like 80 grit sandpaper). Use CRETE-GRIP™ primer.

Rinse the surface well with water and allow it to dry completely for at least 12 hours. The surface must be completely dry & free from any wax, grease, oil, dirt, loose or flaking material, acid substance and soap deposits before applying Concrete Stain or Paint Products.

Concrete

Specialty



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NATIONWIDE CHEMICAL COATING MFRS., INC. • 7106 24th Court East • Sarasota, Florida 34243 • U.S.A.

REPAIRING SURFACE & PATCHING IMPERFECTIONS:

After surface has thoroughly dried, Patch and Caulk all large cracks, crevices, fractures, holes, voids, etc., with a compatible Concrete/Masonry Patching Material. For smaller imperfections, such as hairline cracks, PERMAPATCH™ CAULK and SEALANT will probably be sufficient. Use a trowel or stiff brush to apply.

NOTE: PERMAPATCH™ CAULK and SEALANT allows minimal shrinkage, but the thicker it is applied the more it will shrink. Multiple coats are better than one thick coat. Check PERMAPATCH™ after 24 hours for shrinkage and reapply if necessary.

PRIMER COAT of CRETE-GRIP™ (Optional, but Strongly Recommended):

Note: When using CRETE-CLEAR™, ACRACLEAR™ or AQUACLEAR™, the PRIMER COAT of CRETE-GRIP™ will give a darker appearance to the present surface color, or on bare concrete, will give a darker concrete color, but is still recommended.

Stir CRETE-GRIP™ well before using. Do not thin, use as is. Do not apply when temperatures are below 40 degrees Fahrenheit or when humidity is very high. Do not apply when coating will be subjected to rain or heavy dew before it has had enough time to dry (approx. 2 to 4 hours). Do not apply the product to hot surfaces directly in sunlight, this may cause the coating to dry too quickly and reduce or prevent proper penetration and adhesion. It is better to apply in the morning or late afternoon when the surface will not be very hot. Drying time will vary depending on temperature, humidity and location.

Apply using 1- brush, 2- at least a half inch nap roller, or 3- airless sprayer with at least a .015 tip. Apply it uniformly and do not leave puddles or build ups. Spread Rate will vary depending on porosity and texture of surface. Allow the coat of CRETE-GRIP™ to dry for at least 12 hours.

If you notice that the product is lying on top and it does not seem to be penetrating the concrete, STOP and wait 12 hours for the product to dry, and then check for penetration and adhesion. Penetration is not essential on previously coated surfaces, but an adhesion check is recommended.

CONCRETE COATING:

Stir well before using. Mix multiple containers of color together for greater color consistency. Do not apply when temperatures are below 40 degrees Fahrenheit or when humidity is very high. Do not apply when coating will be subjected to rain or heavy dew before it has had enough time to dry (approx. 1 to 2 hours). Do not apply the product to hot surfaces directly in sunlight, this may cause the coating to dry too quickly and reduce or prevent proper penetration and adhesion. It is better to apply in the morning or late afternoon when the surface will not be very hot. Drying time will vary depending on temperature, humidity and location.

FIRST COAT: (Dilute with 1 Quart of Water per Gallon)

Apply the CRETE-GUARD™, CRETE-CLEAR™, ACRATHANE™, ACRACLEAR™, AQUAKOTE™ or AQUACLEAR™ using 1- brush, 2- at least a half inch nap roller, or 3- airless sprayer with at least a .015 tip. Apply it uniformly and do not leave puddles or build ups. Spread Rate will vary depending on porosity and texture of surface. Allow the first coat to dry for at least 1 to 2 hours.

If CRETE-GRIP™ was not used, and you notice that the product is lying on top & does not seem to be penetrating, STOP and wait 12 hours for the product to dry, and then check for penetration and adhesion. Penetration is not essential on previously coated surfaces, but an adhesion check is recommended.

SECOND COAT: (Apply Full Strength, Do Not Thin)

Apply the CRETE-GUARD™, CRETE-CLEAR™, ACRATHANE™, ACRACLEAR™, AQUAKOTE™ or AQUACLEAR™ using 1- brush, 2- at least a half inch nap roller, or 3- airless sprayer with at least a .015 tip. Apply it uniformly and do not leave puddles or build ups. Spread Rate will vary depending on porosity and texture of surface. It is recommended that the second coat be applied within 48 hours to insure proper bonding between coats.

CURE TIME:

Let the final coating dry at least 24 hours before light traffic (foot traffic) and at least 2 to 3 days before heavy traffic (vehicle traffic). High humidity will increase the cure time. Products will not water spot after drying for 2 to 3 hours.

CLEAN UP:

Clean up all spills, tools and overspray immediately while the coating is still wet with warm soapy water.