

APPLICATION TIPS

BARRICOAT-R

- 1. Apply detail coat in a smooth uniform thickness a day in advance of spraying the Barricoat.
- 2. Use a roller or brush for applying Barriseal-R at an application rate of 30 mils.
- 3. Embed reinforcing fabric into the uncured Barricoat-R. Apply second coat of Barricoat-R over cured first coat.

BARRICOAT-S

- 1. Align the two CaCl₂ solution spray nozzles to allow sprays to cross at a point no further than 18" away from the tip. For proper mixture of material, it is recommended to allow 12" between the point the spray combines and the substrate.
- 2. Spraying too far from the substrate will produce an orange peel texture with pitting.

HORIZONTAL APPLICATIONS

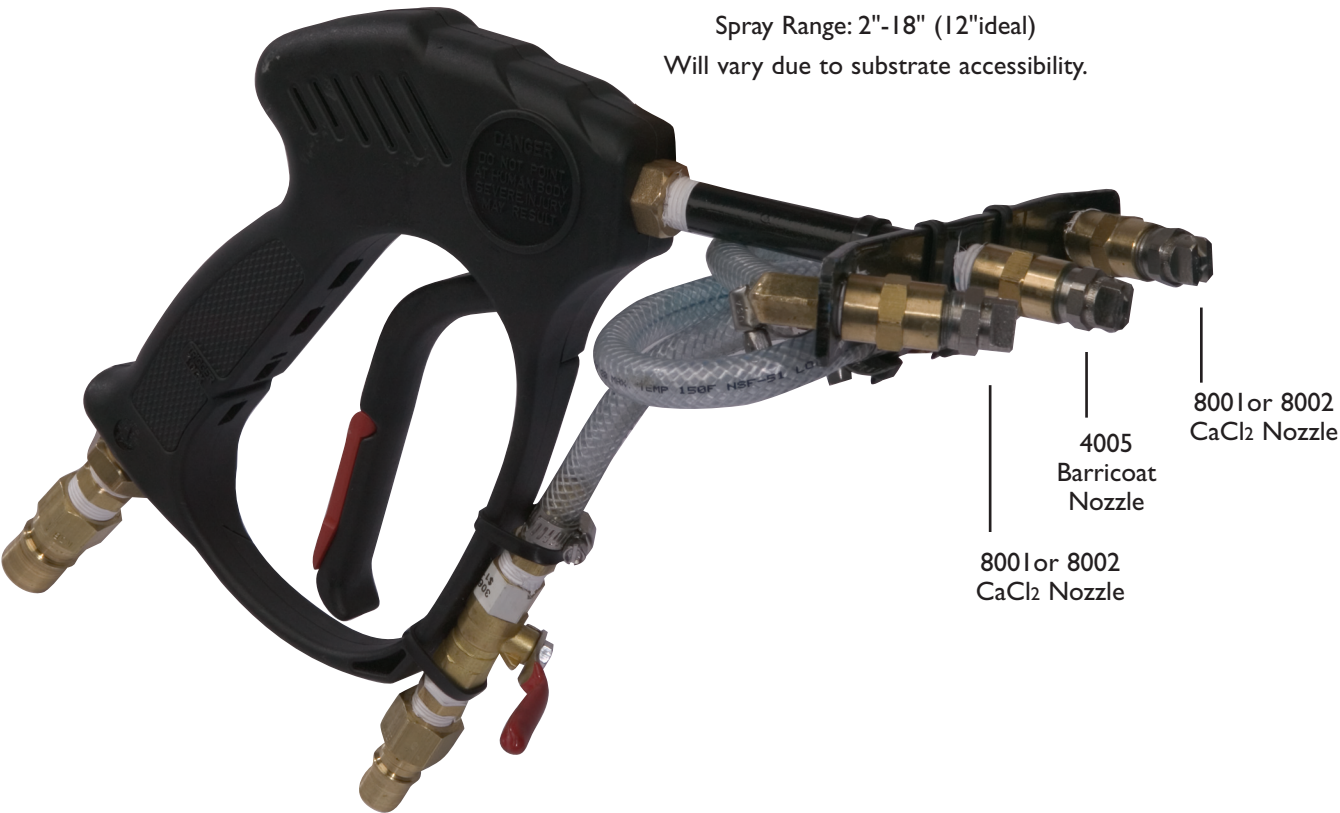
- 1. Plan the work flow to avoid the need to walk on or drag hoses across the fresh work.
- 2. Do not wet the surface with catalyst water prior to spraying, as this can slow the development of adhesion and excess water can cause blisters.

WARNINGS AND HAZARDS

Use only in areas with adequate ventilation. Refer to MSDS for important warnings and product information.

RECOMMENDED SPRAY

VERTICAL OR HORIZONTAL SUBSTRATES



900 Hensley Lane • Wylie TX 75098
800-527-7092 • www.carlisle-ccw.com



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BARRICOAT™ Application Guide

Liquid Applied Waterproofing System

C A R L I S L E C O A T I N G S & W A T E R P R O O F I N G

BARRICOAT SPRAY APPLICATION GUIDE

See spray equipment instruction guide for proper use of spray gun. When spraying always start at the footing and work up the wall to the grade line. Extra passes should be taken at the footing to ensure a thorough coat of material in the cove area at the base of the wall. Spraying from bottom to top allows the catalyst water to drain down the wall over the sprayed area.

Several approaches may be used to achieve the proper membrane thickness. One is a slow pass to build the mil thickness in a single pass. Another is multiple passes to reach the proper mil thickness. When making multiple passes, spray each pass at 1/2 fan width of previous pass. Continue in this shingle fashion to achieve a double coat equal at the proper millage. Check coverage with a wet mil gauge* to adjust spraying method. Care should be taken not to trap moisture between layers of the membrane. If there is a delay between passes, wait until surface moisture has dissipated.

When using the optional spray wand, the two catalyst nozzles should be adjusted to cross about 18" out from the end of the wand. The distance will vary depending on the amount of space between the spray gun, or optional wand, and the wall. The apex of catalyst and emulsion spray should be less than 12" from the wall when spraying.

When spraying in extremely tight areas, the catalyst nozzles can be adjusted to cross at a point closer to the spray gun at the end of the wand.

The spray pattern should be perpendicular to the wall. A perpendicular spray will cover all areas and assure a monolithic consistent coat. When spraying a vertical wall, spray a pattern no more than 6 feet wide.

To test for mil thickness, a wet mil gauge should be used*.

Inspect the structure after spraying to check for any missed or lightly sprayed areas. These areas can be quickly touched up with BARRICOAT-R and a brush or by additional spraying.

Caution should be used when applying emulsion in temperatures below 50°F. All equipment should be stored at temperatures 50°F or above. Spraying may occur at outside temperatures down to 0°F provided the temperature exposure is limited to the gun and hose, and that they are returned to a heated space when not in use. Applications at cold temperatures will require extended time to build adhesion.

VERTICAL WALL APPLICATION GUIDELINES

PREPARATION

- All footings should be swept clean and free of excess or loose debris.
- Honeycomb areas should be treated with non-shrink grout.
- Small holes and voids should be coated with BARRICOAT-R detail coat prior to spraying the BARRICOAT-S. Using a 3" brush, dab the membrane into the holes and twist. This will fill the holes and not leave excess buildup over the repair areas.
- Large holes should be filled with non-shrink grout, patching compound or polyurethane.
- Cold joints and inside corners are treated by applying a 30 wet mil coat of BARRICOAT (roller or un-catalyzed spray grade) 3" on each side of the cold joint. Embed 6" wide DCH Reinforcing Fabric into wet BARRICOAT and apply another 30 wet mil coat of the BARRICOAT (R or S) over it.
- Brick ledges at grade are addressed by applying a 12" strip of CCW-705 TWF over the primed ledge and extending a minimum 3" up the wall and a minimum 3" down the wall. This should be done before spraying the wall. DO NOT INSTALL BARRICOAT ON BRICK LEDGES.
- Follow the spraying procedures in this booklet and build to a 60-mil dry membrane thickness for commercial applications.
- Recommended spraying pressure range: 800 to 1000 psi.

*Wet mil thickness should be 82 mils (check only flat substrate) - 82 wet mils = 60 dry mils = 20 sq. ft./gal

INSULATED CONCRETE FORM (ICF) WATERPROOFING APPLICATION GUIDELINES

PREPARATION

- Check all seams of installed Insulated Concrete Form units. Fill any seam greater than 1/4" with foam. Tape seams with a fabric reinforced tape.
- Follow other preparation procedures in this booklet.

HELPFUL TIPS

CATALYST WATER BLENDING

Blend one (1) 50-pound bag of calcium chloride flakes (at least 77% pure) to 55 gallons of water. Agitate thoroughly to insure complete dissolving of flakes. For smaller batches use 1 pound per 1 gallon of water.

SPRAY APPLICATION

- Nozzles for water: 8001 and 8002 (increased flow).
- Nozzle for emulsion: 4005.
- Pressures for spraying waterproofing: 800-1,000 psi.
- Water fan should be slightly wider than emulsion fan.
- Spray from bottom to top.
- Do not allow water spray to wet wall.
- Always spray waterproofing with the spray head perpendicular to the wall.

MEMBRANE TROUBLESHOOTING

- Gassing or bubbling of membrane can occur and is the result of:
 1. Spraying over liquids.
 2. Calcium chloride water spraying the wall, before the emulsion.
 3. Water that has been trapped between two layers of the membrane.
- Splitting at the inside corners would indicate no reinforcement in the angle change.
- Initial poor adhesion is common when the substrate is below 40°F. Allow additional time for Barricoat to cure.

JOB PREPARATION

- Treat all penetrations and honeycombs with a non-shrink grout or polyurethane prior to waterproofing.
- Treat cold joints and inside corners with BARRICOAT (R or S) and a strip of reinforcing fabric prior to spraying.
- Treat brick-ties with BARRICOAT-R using a 3 1/2" brush. Always make sure ties are broken both inside and out before treating with BARRICOAT-R. If ties are treated on the outside of a wall before being broken on the inside, it could cause the BARRICOAT-R to be knocked out when breaking the inside ties.

EQUIPMENT CLEANING

- Keep spare water spray tips and emulsion tips in kerosene. This will keep particles from breaking loose and clogging tips. This also keeps the nozzle clean and ready for spraying. At the end of the day, leave nozzles in gun. Replace with clean nozzles from the kerosene only when needed.
- Diesel fuel may be used for cleaning in lieu of kerosene. Both diesel fuel and kerosene lubricate emulsion pump seals.

EQUIPMENT MAINTENANCE

- Change oil in hydro cell pump 2-4 times per year. Use Wanner Hydra-Oil available from Wanner Hydra-Cell dealers.
- Use normal preventative maintenance on the gas engine.
- Change hose at any sign of brittleness or cracking.
- Quick connects on hoses should regularly be sprayed with WD-40.
- Follow manufacturer's recommended procedure.

EQUIPMENT TROUBLESHOOTING

- If emulsion spray fan becomes distorted or clogged, stop spraying immediately and clean.

DON'TS

- Don't use solvent-based products with BARRISEAL MEMBRANES. They are not compatible.
- Don't leave hoses or gun exposed to cold ground when not in use.
- Don't allow emulsion to get below 50°F.
- Don't attempt to regrind skins or films.
- Don't allow unit to freeze with material in unit.
- Don't apply over an existing membrane, even dampproofing, without testing for adhesion, compatibility, and cure time.



ACCESSORY ITEMS

1. Safety goggles
2. Protective jump suit
3. Tip cleaners
4. Spare emulsion nozzle # 4005
5. Spare catalyst nozzles # 8001
6. Spare catalyst nozzles # 8002 (high heat or wind conditions)
7. Clean spray gun
8. 4-inch roller with a 1-inch nap
9. 6" CCW DCH reinforcing fabric
10. Working gloves
11. Paint sieve or screen
12. Wet mil thickness gauges
13. 12" crescent wrench
14. Large screw driver
15. 2 or more cans of WD-40
16. Bung (drum) wrench
17. Rags
18. 36" CCW DCH reinforcing fabric (for reinforced jobs only)
19. 2"- 3" wide paint brushes