



# BARRICOAT-R

## ROLLER APPLIED WATERPROOFING MEMBRANE

### DESCRIPTION

BARRICOAT-R is a roller applied, water-based, asphalt emulsion modified with a blend of synthetic rubbers and special additives, which cures to form a flexible, monolithic, waterproofing membrane on vertical or horizontal surfaces, above or below grade. The membrane has good adhesion to concrete substrates preventing lateral water migration.

### TYPICAL USE

BARRICOAT-R is designed to be a waterproofing and vapor barrier membrane. Typical applications are between structural slab and wearing course on parking garages, plaza decks, balconies, roof decks, terraces, mechanical equipment rooms, foundations, wet rooms, malls and shower stalls. BARRICOAT-R is ideally suited for waterproofing on below grade foundation walls, tunnels, planters and other areas where a seamless elastomeric waterproofing is required.

### ADVANTAGES

- Performs as a vapor and water barrier.
- May be applied to green concrete, damp surfaces and ICF forms.
- Non-flammable, solvent free.
- Excellent elongation and recovery.
- Good tensile strength.
- Exceptional bonding.
- Creates a seamless membrane.
- Fast cure.

### LIMITATIONS

- Should be applied to clean and dry surfaces.
- Adjacent areas and surfaces should be protected from contact with the product.
- Not intended for long term exposure to sunlight.
- Keep from freezing - store above 50°F.
- Solvent-based products should not be applied over this product.
- During warm weather application apply membrane in 10 mil layers

### PACKAGING

BARRICOAT-R roller grade is available in 5 gal. pails.

Shelf Life: 6 Months

### INSTALLATION

*Surface Preparation:* Surfaces shall be structurally sound, dry, and free of oil, grease, dirt, laitance, curing or release agents and other contamination which may harmfully affect the adhesion of the membrane. Mortar joints on block walls shall be struck flush with block surface.

Remove splatters, fins, ridges or other projections to provide a smooth, level surface. Fill tie rod holes, honey combs, rock pockets, spalls or other voids and indentations with non-shrink grout.

*Detailing:* Cold joints are treated by applying a 30 wet mil coat of BARRICOAT-R 3" on each side of the cold joint. Embed 6" wide DCH Reinforcing Fabric in it and then apply another 30 wet mil coat of the BARRICOAT-R over it.

Cracks, spalls or metal protrusion areas should be detailed by brush or trowel application of BARRICOAT-R ensuring penetration of material into damaged or cracked

### TECHNICAL DATA

| PROPERTY                                | ASTM TEST METHOD            | RESULTS        |
|---|-----------------------------|----------------|
| Color                                   |                             | Brown to Black |
| Non-Toxic                               |                             | No Solvents    |
| Cured Film Thickness                    | 55-60 mils (21 sq. ft/gal.) |                |
| Initial Cure                            |                             | 10 minutes     |
| Elongation                              | ASTM D-41                   | + 1300%        |
| Resilience                              | ASTM D-3407                 | 98% (recovery) |
| Moisture Vapor                          |                             |                |
| Transmission                            | ASTM E-9                    | 0.01 gm/sq.ft. |
| Perm Rating                             | ASTM E-9                    | 0.02           |
| Shelf Life                              |                             | 6 months       |
| Residual chloride in concrete           | 133 ppm                     | (0.0133%)      |
| Peel adhesion to Valeron film           |                             | 25.4 lb/in     |
| Peel adhesion to CCW-500                |                             | 11.7 lb/in     |
| Peel adhesion to concrete               |                             | 19.7 lb/in     |
| Peel adhesion to CMU                    |                             | 22.5 lb/in     |
| Peel adhesion to Dens-Glas Gold         |                             | 2.9 lb/in      |
| Peel adhesion of CCW-500 to Barricoat-S |                             | 28.2 lb/in     |

area. Moving cracks and all cracks over 1/16" in width are treated by applying a 30 wet mil coat of BARRICOAT-R 3" on each side of the cold joint. Embed 6" wide DCH Reinforcing Fabric in it and then apply another 30 wet mil coat of the BARRICOAT-R over it.

Inside and outside corners should receive a 60 mil detail coat of Barricoat-S or Barricoat-R, centered on the corner and extending 6" in each direction. Inside corners which are construction joints should be reinforced as described above for cold joints. Alternatively a 3/4" x 3/4" fillet of CCW-201 may be installed in the corner followed by a 60 mil detailed coat of Barricoat-S or Barricoat-R centered on the corner and extending 6" in each direction.

Penetrations should be reinforced and treated. Using a brush or trowel, apply a 30 wet mil coat of BARRICOAT-R in a 6" radius around the penetration and 3" onto penetration. Embed 6" wide DCH Reinforcing Fabric into the first coat and then apply a second 30 wet mil coat over the fabric.

Brick ledges are addressed by applying an 12" strip of CCW-705 TWF Sheet Membrane over the ledge and extend it 3" up the wall and down the wall. This should be done before spraying the wall and/or ledge. DO NOT INSTALL BARRICOAT IN BRICK LEDGES.

*Priming:* No priming is necessary with this product.

*Application:* The BARRICOAT-R is applied using a short nap roller or brush. Apply membrane to the vertical and horizontal surfaces, including over all previously detailed areas at a rate of approx. 21 sq. ft./gal. (60 dry mils). This is accomplished by 3 passes at approx. 20 mils each.

*Vertical and Horizontal Reinforcing:* Roll 60 mils of membrane and apply BARRICOAT Reinforcing fabric and then apply an additional 60 mils of membrane.

Because this is a water-based emulsion, caution should be exercised when applying in cold temperatures. Emulsion temperature should be 50°F. minimum.

*Vertical Protection:* Ensure that the surface has completely dried before installing the CCW Protection Board or CCW MiraDRAIN Drainage Composite. Once the surface has dried, apply DrainGrip spray adhesive to the surface and then adhere the protection course. Adhesive may not be required in warm weather.

*Horizontal Protection:* The membrane must be protected from damage. Install CCW MiraDRAIN or CCW Protection Board immediately following the flood test. Install 8 mil Elephant Skin to the protection course to provide easy future access to the membrane.

## WARNINGS AND HAZARDS

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

## STORAGE

Store material in areas above 50°F. Protect from freezing in shipping and storage.

## LIMITED WARRANTY

CARLISLE COATINGS & WATERPROOFING INCORPORATED (CARLISLE) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any CARLISLE materials prove to contain manufacturing defects that substantially effect their performance, CARLISLE will, at its option, replace the materials or refund its purchase price.

This limited warranty is the only warranty extended by CARLISLE with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. CARLISLE specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever.

The dollar value of CARLISLE's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the CARLISLE material in question.