

# COLPHENE® 3000

COLPHENE 3000 is a 60-mil, self-adhered SBS modified bitumen membrane adhesive on a trilaminate woven polyethylene facer. The rolls are protected with a silicone release film for easy application. COLPHENE 3000 is available in both a summer and winter grade and is designed to be used with a primer to waterproof foundation walls and other vertical buried surfaces.

### HEALTH & SAFETY

The contractor shall ensure compliance with OSHA, EPA and other local governing and disposal authorities for project-related safety and environmental requirements. Prior to application, persons handling or applying COLPHENE 3000 membrane should familiarize themselves with the applicable Product Data Sheets (PDS), Safety Data Sheets (SDS), specifications, and application instructions. Refer to product SDS for health, safety, and environment related hazards, and take all necessary measures and precautions to comply with specified exposure limits where required. The applicator is responsible for ensuring conditions are appropriate to proceed and proper application methods are followed.

When applying COLPHENE 3000 membrane typical exposure levels will be below OSHA permissible limits for most outdoor applications. When required, air monitoring should be performed by a qualified person to identify any hazards. If respiratory protection is required, use a NIOSH approved air-purifying respirator.

## APPLICATION GUIDELINES

### STORAGE & HANDLING

Store rolls on end and maintain in an upright position to prevent damage. Store rolls in a clean dry location and cover as necessary to protect rolls from environmental damage such as extreme heat, or water and monitor these conditions during storage, handling and application of COLPHENE 3000. Store materials below 95°F (35°C) for optimum shelf life and packaging stability. Storage outside of the recommended guidelines for extended time could affect the shape of the rolls and make application more difficult. Store away from any sparks or open flames.

### ENVIRONMENTAL CONDITIONS

Generally, application may proceed when ambient and surface temperature is minimum 25°F (-3°C) and rising providing the substrate is a minimum of 5°F (-15°C) above the dew point temperature, the substrate is clean and dry, and the COLPHENE 3000 rolls are warm enough to easily unroll and work into position on the wall.

COLPHENE 3000 is available in summer grade for application temperatures above 50° F (10° C), and winter grade for application temperatures from 50° F (10° C) down to 25° F (-3° C).

### EQUIPMENT LIST

- Weighted hand rollers
- Safety glasses
- Utility knives
- Approved primers
- 3/8" nap rollers for primer application
- HD roller frames
- Roller extension handle
- Measuring tape

## SUBSTRATE PREPARATION

All substrates must be clean, dry and free of voids, spalled areas, loose aggregate and sharp protrusions as well as loose, unsound or foreign material such as dirt, ice, snow, water, grease, oil, release agents, lacquers, or any other condition that would be detrimental to adhesion. Release agents and curing compounds must be removed prior to application of COLPHENE 3000.

Poured concrete shall be cured a minimum of 14 days with a moisture of 6% or less. Moisture can be measured with a non-destructive moisture meter. ICRI Concrete Surface Profile CSP-1 to CSP-5. Ensure concrete block or brick mortar joints are struck flush or bring to a flush using additional mortar or a parge coat.

Metal substrates shall be prepared to a bright metal finish in accordance with SSPC – SP3 (power tool clean) and be prepared a minimum of 1/8" (3mm) beyond the COLPHENE 3000 application area.

## PRIMER

Use the jiffy mixer and power drill at low speed (250-500rpm) for 30 seconds making sure to stir the primer from the bottom to the top of the pail for a homogeneous mixture prior to application. Apply primer at the recommended rate of coverage and allow to dry per the product's Product Data Sheet.

## DETAILING

**1.** Cracks that are 1/16" wide or less shall be pretreated by applying SOPRASEAL SEALANT in a zig zag pattern down the joint and tooling to approximately 20mil thick and at least 2" on either side of the crack. Allow sealant to cure a minimum 2 hours @ 75°F and 50% RH before installing COLPHENE 3000.

**2.** Cracks greater than 1/16" wide shall be routed to min. 1/4" wide by 1/4" deep. Install bond breaker tape to the bottom of the clean and dry routing and seal with SOPRASEAL SEALANT. Allow sealant to cure overnight @ 75°F and 50% RH before installing COLPHENE 3000.

**3.** All expansion joints consult your SOPREMA Representative.

**4.** Footers and inside corners shall have a minimum of ½" x ½" cant bead of SOPRASEAL SEALANT. Allow sealant to cure overnight @ 75°F and 50% RH before installing COLPHENE 3000.

**5.** Penetrations such as pipes through foundation walls require a minimum of ½" x ½" cant bead of SOPRASEAL SEALANT. Allow sealant to cure overnight @ 75°F and 50% RH before proceeding. Once COLPHENE 3000 has been installed apply another cant bead of SOPRASEAL SEALANT sealing the pipe onto the COLPHENE 3000 facer a minimum of 4".

## INSTALLATION

**1.** Prime the substrate using ELASTOCOL STICK, ELASTOCOL STICK ZERO or ELASTOCOL STICK H2O primer.

**2.** After the primer is completely dry, begin installation of the 12" wide membrane centered over the corner of all vertically running inside and outside foundation corners. This strip must be applied directly on the surface, with no gaps between the surface and the membrane.

**3.** Install 12" membrane on the footings, making sure that 6" is installed on the foundation wall and 6" onto the footing.

4. Peel off the top of the silicone release film and stick the membrane on, making sure it is carefully aligned. Slowly remove the silicone release film while making sure the membrane is fully adhered. Overlap side laps a minimum of 3" and head laps a minimum of 6".
5. Once the membrane has been installed, use a weighted hand roller on the entire sheet to apply pressure to the membrane to ensure complete adhesion.
6. Tears and holes must be repaired using a patch of COLPHENE 3000 applied directly to the existing membrane. The patch must be at least 4" larger than the affected surface.
7. Terminate the top edge of the COLPHENE 3000 at grade with a 1" metal termination bar and seal with SOPRASEAL SEALANT.

For tie-ins to other COLPHENE waterproofing products, or air barrier SOPRASEAL products refer to the appropriate tie-in details on our website at [www.soprema.us](http://www.soprema.us).

SOPRA-XPS insulation may be installed using adhesive backed insulation pins adhered to the installed COLPHENE 3000. Adhesive backed pins are recommended to avoid penetrating the waterproofing membrane.

SOPRADRAIN 100 series prefabricated drainage may be installed over the insulation or directly over the COLPHENE 3000. SOPRADRAIN 100 series products can be hung using a termination bar at the top of the wall where the fasteners will not penetrate the waterproofing membrane. The SOPRADRAIN 100 series may also be held in place temporarily until back filled using a spot application of COLPHENE LM BARR FLASHING.

## CLEANUP

Dispose of unused COLPHENE 3000 in accordance with local rules and regulations. COLPHENE 3000 is not hazardous waste. Consult local, provincial, territory or state authorities to know disposal methods.

COLPHENE 3000 is not listed by the EPA as hazardous waste according to the Resource Conservation and Recovery Act (RCRA) of the United States. No Environmental Protection Agency (EPA) waste numbers are applicable for this product.