

# COLPHENE® ICF

**COLPHENE ICF** is a 40-mil, self-adhesive SBS modified bitumen membrane with a trilaminate woven polyethylene facer designed to waterproof foundation walls and other vertical buried surfaces that utilize insulating concrete forms.

## 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 ICF 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 ICF 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 ICF. 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 14°F (-10°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 ICF rolls are warm enough to easily unroll and work into position on the wall. COLPHENE ICF is available in summer grade for application temperatures above 50° F (10° C), and a winter grade for application temperatures from 50°F (10°C) down to 14°F (-10°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

The substrate should be clean, sound, free of excess water and loose materials, grease and any contaminants prior to application of COLPHENE ICF.

### DETAILING

1. Footers 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 ICF.
2. Penetrations such as pipes require a minimum of ½" x ½" cant bead of SOPRASEAL SEALANT. Allow sealant to cure overnight at 75°F and 50% RH before installing COLPHENE ICF. Once COLPHENE ICF has been installed apply another cant bead of SOPRASEAL SEALANT ½" onto the penetration and 4" on to the COLPHENE ICF.

### INSTALLATION

On a clean, dry surface, COLPHENE ICF membrane does not usually require primer. Use water-based ELASTOCOL STICK H2O where primer is needed; solvent-based primers could damage the polystyrene and must not be used.

1. Begin installation with a 12" wide cut membrane roll 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.
2. Install 12" membrane on the footings, making sure that 6" is installed on the foundation wall and 6" onto the footing.
3. 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".

4. 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.
5. Tears and holes must be repaired using COLPHENE ICF applied directly to the existing membrane. The patch must be at least 4" larger than the affected surface.
6. Terminate the top edge of the COLPHENE ICF at grade with a 1" metal termination bar and fasteners into the concrete formwork and then seal with SOPRASEAL SEALANT.
7. Install the specified or approved SOPRADRAIN drainage board directly on the membrane with adhesive or fasteners while avoiding the perforation of the membrane.
8. Any waterproofing membrane that can be seen after filling must be protected from UV rays and mechanical damage.

### CLEANUP

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

COLPHENE ICF 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.

