

Product Information Bulletin

Advantage ICF System® - Dampproofing and Waterproofing

This Product Information bulletin discusses use of the dimpled membranes, such as Superseal, to provide dampproofing for walls constructed using the Advantage ICF System with specific.

The table below summarizes National Building Code (NBC) of Canada 1995 requirements for Part 9 (residential) applications.

Table 1 – NBC 1995 Dampproofing References

Foundation Dampproofing Requirement	
Except as provided in Article 9.13.1.2., where the exterior finished ground level is at a higher elevation than the ground level inside the foundation walls, exterior surfaces of foundation walls below ground level shall be dampproofed.	NBC Article 9.13.1.1.
Foundation Waterproofing Requirement	
Where hydrostatic pressure occurs, floors-on-ground and exterior surfaces of walls below ground level shall be waterproofed.	NBC Article 9.13.1.2.
Dampproofing and Waterproofing Material Requirement	
Except as otherwise specified in this Section, materials used for exterior dampproofing or waterproofing shall conform to Article 9.13.2.1.	NBC Article 9.13.2.1.

Typical dampproofing materials that have been used over exposed concrete walls include mineral colloid emulsifiers. This type of dampproofing can also be applied to the surface of the Advantage ICF System expanded polystyrene (EPS) insulation panel. However, an issue that does arise with liquid coatings is that they will not bridge gaps between Advantage ICF block, so unless vertical joints are butted tightly together the joints must be filled before application. As well, the specific product used must be recommended as compatible for use with EPS insulation. Highly solvent extended asphalt emulsions are not compatible with EPS insulation.

Another type of product that is acceptable for use with the Advantage ICF System and can provide an effective dampproofing without the concerns identified above is a rigid plastic dimpled sheet membrane. The Superseal Dimpled Membrane has been evaluated for use as a dampproofing material by the Canadian Construction Materials Centre (CCMC) under CCMC 13099-R. Superseal has developed installation instructions for use as a dampproofing membrane when installing over the Advantage ICF System.