



April 21, 2017

Brian Smith
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Brian,

The US EPA recommendation for under-slab radon barrier membranes includes a baseline of 6 mil polyethylene sheeting, and describes an effective radon barrier as one which provides an airtight seal to soil vapours; spray applied Precidium™ ECS™ is an excellent membrane for providing air tight seals around the foundation walls and any penetrations. Especially during the installation of the aggregate and/or concrete, stresses are often localized at the seams, around penetrations, and at the attachment interfaces. ECS is seamless and elastic, which mitigates much of the risk associated with those failure mechanisms identified by industry as the major source of radon entering the building. ECS has been tested for air, water vapour, and methane permeability. As such, radon diffusing through the ECS geomembrane would not be considered a significant source of entry. ECS is highly impermeable to these soil gases and is considered an appropriate under-slab membrane layer, especially for projects where an airtight seal around the foundation walls and penetrations is critical.

In summary, it is our professional opinion that spray applied Precidium™ ECS™ sealed to the foundation and around penetrations is a good candidate for under-slab vapour/radon barrier.

Please feel free to contact me directly at anytime for additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read "Dave Martin", is written in a cursive style.

Dave Martin, P. Eng
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