

## CTU Online Anytime Module 1.8 – Waterproofing Membranes with Crack Isolation

### Key Takeaways

- Multi-purpose membranes
  - Combination membranes offer multiple benefits and add value
    - Crack Isolation: isolation from in-plane movement caused by concrete shrinkage or movement from plywood assemblies
      - Not suitable for use over deep or wide cracks (over 1/8" may be structural)
      - Not suitable over vertically displaced or heaved concrete
      - Not for use over true expansion joints
    - Waterproofing
      - ANSI A118.10: Load bearing, bonded membrane functions as a barrier to positive water migration
      - Can be bonded to variety of substrates
      - Can be applied as sheet, by trowel or rolled on as a liquid
  - Liquid-applied membrane Pros and Cons
    - Liquid-applied Pros
      - Monolithic coverage for any size or shape area
      - Easy to apply, similar to paint
      - No precutting of inside/outside corners
      - Bonds directly to drain assemblies
      - Can be used for interior and exterior
    - Liquid-applied Cons
      - Two coats in different directions required for waterproofing (to avoid pin-holes)
      - Each coat must fully dry before applying additional coat or bonding materials
      - Coverage must be sufficient and consistent to meet ANSI standards
      - Not always appropriate for F125 partial coverage method
    - RedGard<sup>®</sup> is Custom Building Products' leading liquid-applied membrane
      - It's ready to use and as easy to apply as paint
      - Provides a continuous, monolithic waterproof barrier
      - Suitable for cracks up to 1/8"
      - Extra heavy-duty service rating
      - Exceeds ANSI A118.10 and A118.12
      - Suitable for interior and exterior applications

- Suitable for swimming pools, decks and veneers
  - Use a primer over gypsum-based underlayments
  - Can be used as moisture vapor control system
  - IAPMO approved as a shower pan liner
- Uncoupling Membranes
  - Plastic membrane geometrically configured to provide airspace between tile assembly and substrate (approx. 1/8" thick)
    - Allows for independent movement between substrate and system
    - Minimizes the transfer of stress from substrate to tile system
    - Can be used over plywood or OSB (16" OC and 19" OC)
    - Suitable for use over young/green concrete
- RedGard® Uncoupling Mat is Custom Building Products' uncoupling membrane
  - Meets ANSI A118.10 and A118.12
    - Waterproofing and vapor management capabilities
      - Use RedGard® tape for moisture barrier
    - Crack isolation capabilities prevents cracks in tile and grout

This content is provided "as is," without any kind of warranty, either express or implied. This content is not a warranty as to any product or service provided by Custom® Building Products. Warranties, if any, accompany the product or service when purchased by a customer. Custom® Building Products is not liable for any errors, delays, inaccuracies, or omissions in this content or any sites that are linked to, or referred to by, this content. Under no circumstances shall Custom® Building Products be liable for any damages, including indirect, incidental, special, or consequential damages that result from the use of, or inability to use, this content whether based on actions in contract, tort, negligence, strict liability, or otherwise, even if Custom® Building Products has been advised of the possibility of such damage.

For more information, visit [www.custombuildingproducts.com](http://www.custombuildingproducts.com) or contact CUSTOM Technical Services at 800-282-8786