Waterproofing 101

Definition

- Waterproofing and dampproofing are code driven construction applications

- Dampproofing products (untreated asphalt emulsions or cutbacks) retard moisture penetration under non-hydrostatic conditions

- Waterproofing products prevent water penetration under intermittent or continuous hydrostatic pressure

Code approvals

- Two model building codes serve as the model for all state and local building codes:
  - The International Building Code
  - The International Residential Code

What's approved?

- The following are considered "approved waterproofing materials" under both current model building codes:
  - Two-ply hot mopped felts
  - 6 mil polyvinyl chloride
  - 40 mil polymer modified asphalt
  - 6 mil polyethylene
  - Other approved methods or materials

Where does Ultra-Shield fit in?

- Ultra-Shield products are polymer modified asphalt waterproofing membrane

Ultra-Shield and the Building Code

- Polymer modified asphalts are not only approved – they are part of the building code

Ultra-Shield and the Building Code cont'd.

- The International Building Code and the International Residential Code approve polymer modified asphalt as a waterproofing material

- ICC-ES report (ESR-2702) confirms compliance

Additional benefits to Ultra-Shield

- Elastic, flexible membrane; self-healing
- Crack bridging ability
- Localize leaks
- Improved vapor permeance
- Resists water under pressure
- Complies with EPA standards for radon control

GMX
A Subsidiary of Garland Industries

A typical application spec

- Inspect the wall to be sprayed
- Repair any visible cracks and imperfections with concrete patch
- Sweep the footing
- Remove any wall ties on walls to be sprayed; seal the openings with concrete patch or roof cement
- Ensure that the wall is as clean and dry as conditions permit
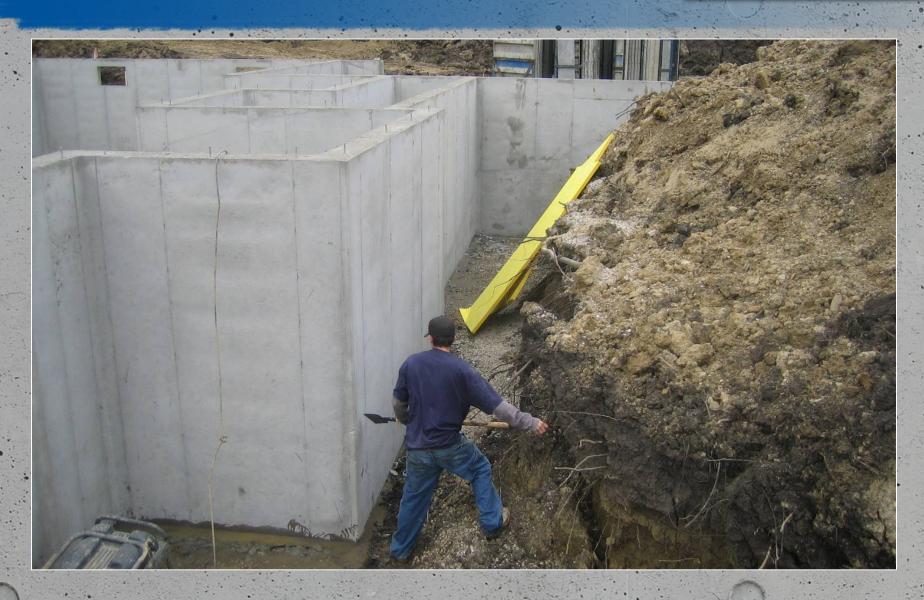
Application spec cont'd.

- Spray, brush or roller apply Ultra-Shield to required thickness

- 40 mil application requires 1 gallon per 20 – 25 sq. ft. on poured walls

- On unparged block walls, more material is required to "fill in the pores"

Application spec cont'd.

- Install insulation, protection course or drainage material over the coating as per manufacturer's specifications

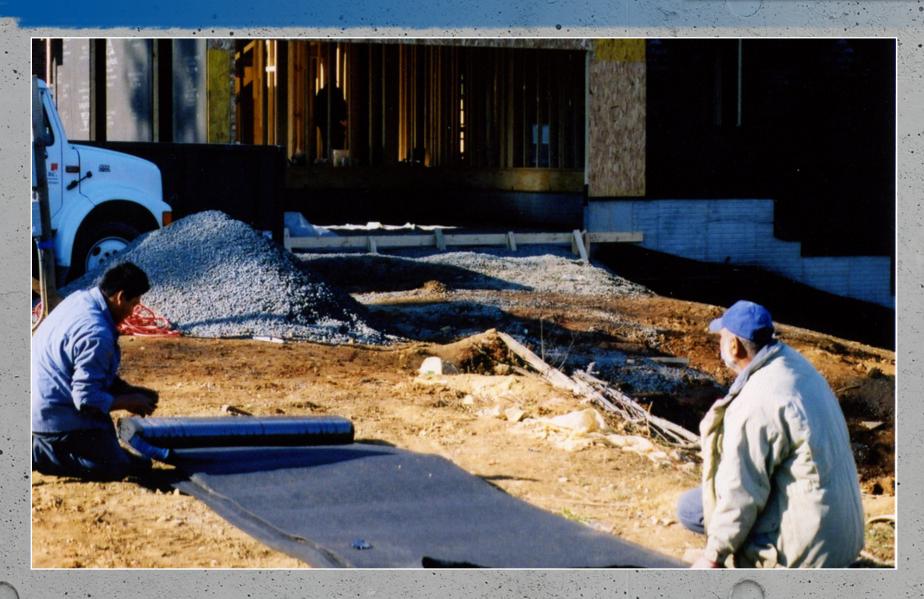- Install drain tile or strip drain or ensure installation of same