

CTU Online Anytime Module 1.9 – Showers and Submerged Applications

Key Takeaways

- The typical U.S. shower sees over 2,500 inches of water each year
- Water creates the potential for building damage as well as health risks
- These surface preparation steps can help with water management:
 - Slope ¼" per foot towards the drain to avoid any puddling
 - Apply a continuous membrane from top of system down to the drain and tie into drain assembly
 - Waterproofing Reinforcing Mesh Tape should be used for changes of plane and around plumbing protrusions
- TCNA Detail B421 is the recommended method for water management
 - A continuous membrane over the mortar bed helps to eliminate:
 - Mortar bed being soaked from continuous exposure
 - Leaching of calcium and other minerals from mortar bed into weep holes
 - Clogging of weep holes and drain assembly
 - RedGard[®] Waterproofing and Crack Isolation membrane is suitable for systems conforming to TCNA Detail B421. Product benefits include:
 - Continuous waterproof barrier
 - Outstanding adhesion to drains
 - Listed as IAPMO shower pan liner
 - First low-perm liquid-applied moisture vapor barrier
- TCNA Detail SR 614 is the recommended method for use in steam rooms and showers. Key system elements:
 - Sloped ceiling so condensation runs down walls
 - Moving slip joint
 - Low perm waterproof membrane (<0.5 perms)
 - RedGard provides 0.3 perms of protection
 - Not all A118.10 membranes are low perm barriers
 - ASTM E96 E determines perm level (test at 100 F and 95% RH)
- Submerged applications with irregular shapes are ideal for liquid applied membranes such as RedGard[®]
 - Can be trowel, roller and spray applied (when using elastomeric spray rig)
- CUSTOM's Rapid Setting Shower System allows showers to be completed in as little as a day
 - Standard mortar beds take 72-96 hours to cure
 - Rapid setting sloping mortar, such as SpeedSlope[®] can be used to accelerate installation process
 - Can dry in as little as 1 hour

- Calcium aluminate formula provides high early strength
- Use horizontally up to 3" thick
- Trench up to 5" deep
- A rapid curing waterproof membrane, such as RedGuard® SpeedCoat™ is ideal for fast track installations
 - Cures in as little as an hour
 - Cross-linking moisture cure
 - Suitable for interior use
 - Dries fast even in cool or damp air
 - Requires two coats

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