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Application of StoTherm®ci to StoGuard® VaporSeal™

StoGuard VaporSeal is designed as an air barrier, WRB (water-resistive barrier), and vapor barrier. The vapor-barrier quality of this product is desirable and specified for certain projects, but this property has an important trade-off effect. The water vapor impermeability extends the amount of time required for cementitious adhesives applied over StoGuard VaporSeal to develop full bond strength. This can require an extended drying period before rasping of the EIFS insulation board.

Therefore the preferred adhesive for this application is Sto TurboStick for quick drying and shorter time before rasping. For complete information on installation of Sto EPS Insulation Board with Sto TurboStick refer to Sto Product Bulletin No. 81181.

Another option is to mechanically fasten Sto EPS Insulation Board over Sto DrainScreen into supporting construction, making sure to verify that the fastening pattern will meet negative wind load resistance requirements for the project.

Also important to consider is compliance with local codes in relation to required fire tests. Analysis may be necessary to verify compliance with the code. In certain cases, for example, if the building is classified as combustible (Type V) or the building is only one story in height, fire tests such as NFPA 285 for use of foam plastics in multi-story noncombustible type construction are not necessary. However, consideration of other tests such as NFPA 268 Ignition testing of foam plastic-based wall assemblies must still be taken into account as well as height limitations for WRBs expressed in Chapter 14 (Section 1403.5) of the 2012 IBC (International Building Code) for Construction Types I, II, III, and IV. The design professional must review this carefully before specifying any proposed assembly involving an air barrier and/or foam plastic insulation.