



Technical Notes

July 18, 2008

Installation of FasTop MVT for vertical application

At times moisture remediation may be required for a vertical substrate. FasTop MVT can be applied on a vertical surface but modification is required to promote “hang” as this is a resin rich system.

Hydrophobic fumed silica (Cab-O-Sil, Aerosil) should be added to a kit of FasTop MVT at equal levels, by volume, as the resin. This level is not precise as temperature and humidity can impact performance (hang).

Combine the FasTop MVT liquids from a kit (1 gal Part A, 0.7 gal of Part B) into a clean 5-gal pail. Mix for 10-20 seconds using a heavy duty ½” drill motor and paddle, then slowly add the fumed silica (1.5-2.0 gals) and mix until fully wet out, 20 seconds or so. When the fumed silica is fully wet out you should note a thickening of the liquids, now add the bag of FasTop MVT aggregate (35 lbs) and mix on high speed until all components are uniform, no dry powders visible, this typically takes no more than 20-30 seconds.

The total mix will be approximately 4 gals and provide enough material for 2-3 applicators. FasTop is aptly named so working time will only be 10-15 minutes dependent upon temperature, humidity and air movement.

Apply the mortar via hawk and trowel pulling material up the vertical starting at the bottom, working up. Typical thickness is 60-90 mils. Round edge trowels lessen application marks. Solvent can be used to clean and lubricate the trowel. The applied surface can be lightly rolled with a roller cover dampened with solvent for smoothing; too much solvent can cause the mortar to sag. Within 15 minutes of application broadcast a fine (40-60 mesh) silica sand into the surface. A refusal broadcast is not practical on a vertical surface but enough sand should be visible at the surface to insure bond of the intermediate or topcoat material.

Helpful hints:

- large “bug holes” or surface imperfections may require pre-filling
- surface should be sand blasted or prepped to CSP 3-5 profile
- avoid application in direct sunlight, or areas of high air movement
- surface and air temperature should be less than 90F
- use MEK or xylene, avoid alcohols
- only add fumed silica into the liquid resin, prior to addition of the FasTop aggregate
- scrape buckets between mixes, change buckets after any breaks in application
- be quick, hang material with a short trowel, finish with a larger “pool” trowel to smooth and level
- a kit will cover 135-180 sq. feet at 60-90 mils