

Gravelpave2 Cement Binder

In using cement as a stabilizing agent in Gravelpave2, location and application need to be considered in order to determine delivery method. Small, remote projects like rails to trails installations or horse trails where larger vehicle access is limited will require a small portable cement mixer and wheel barrow conveyance. Cement is added to stone proportionately, say one shovel full for every ten shovels full of stones. Dye may be added here also, as in the Garden of the Gods project, one 8 oz. full for every 1/3 of a yard mixed. For larger, more accessible jobs, a ready-mix concrete truck can be used, preferably a front discharge truck, which can save labor by spreading the mix over the Gravelpave2 fairly evenly, prior to raking and tamping. **IN BOTH CASES NO WATER IS ADDED TO THE MIXES; THE STONE AND CEMENT ARE SPREAD AND TAMPED DRY INTO GRAVELPAVE2.** (Note: ready-mix trucks must either be relatively new or have well-maintained, sharp augurs in order to allow the dry product to pour freely. You will need to mention this to the ready mix dispatcher.)

Site prep for augmented Gravelpave2: Spread stone and sand base: compact with plate tamper. Soak with water. Then roll out and secure Gravelpave2. If soil has a low amount of natural microscopic water content (like Garden of the Gods), roll out and secure Gravelpave2 before soaking with water. Geo-fabric will help retain water near the surface for wicking action in set process.

Once augmented gravel has been spread over Gravelpave2, run a gas powered plate tamper over it. A “wake” of gravel will appear as the operator tamps over each area. A stable broom can serve to smooth this out. Ring tops will be visible if coverage is just right. If ring sides are visible, more gravel is needed and can be hand sprinkled if this occurs in only a few places, or even a minor redistribution with the stable broom. Overfill is obvious when the “wake” is more than a half inch in back of the plate tamper. Try tamping the same areas a second time. If the “wake” is still more than half an inch, remove some gravel and smooth with broom. Lightly mist (action is to moisten, not wash, cement coating on gravel) area with water and cover immediately with 6 mil poly, preferably black, making sure to anchor with rebar, 2x4's, sand, something to hold it in place to allow a 48 hour cure. Two days later, remove plastic and it's ready to go.