Technical Bulletin 406



Recommended Mixers for Cementitious Materials

To properly mix Five Star® cementitious materials a mortar mixer with shearing action is required. The mortar mixer shall be clean, dry, and in good working order and shall be sized appropriately for the cementitious material pour. The mixing volume is recommended not to exceed 1/2 of the total volume of the mixer. Large volume placements may require multiple mortar mixers. For mixes with coarse aggregate extension contact your local Five Star® Technical Sales Representative

Five Star Products recommends the following equipment for mixing Five Star® cementitious materials:

Drill and Paddle



For small unit mixing, Five Star Products recommends a substantial drill/mixer and paddle such as a hand operated drywall mud/grout mixer or a 7.5 amp ½ inch corded drill and mixing paddle.

The product is normally mixed in a 5 gallon or larger plastic pail.

Mortar Mixer Rotating Fins and Paddles



For multiple bag mixes, Five Star Products recommends a mortar mixer with rotating fins and paddles to thoroughly mix the grout. The rotating fins and paddles scrape against the mixer walls providing a shearing action for both neat and extended grout batches.

Mortar Mixer Vertical Shaft*



For mini bulk bag mixing and pumping applications, Five Star Products does allow the use of a vertical shaft mortar mixer with the following caveat: *Because of the limited shearing action of a vertical shaft mixer, more water may be required to completely mix Five Star® cementitious products. The addition of more water may result in lower than published compressive strengths.



Five Star Products does NOT recommend a rotating drum cement/concrete mixer. These mixers only spin and tumble and do not provide the shearing action needed for properly mixing Five Star® cementitious materials.

Contact your local Five Star® Technical Sales Representative for additional information.

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