

## HOW-TO GUIDELINES - Citadel Masonry Cements

**Mixing:** Machine mixing should be used whenever possible. First, add most of the water and half of the sand. Next, add the masonry cement and the rest of the sand. After one minute of continuous mixing, slowly add the rest of the water. Mixing should continue for at least three minutes; extending mixing up to five minutes improves mortar qualities.

No admixtures should be used without written approval. Citadel Masonry Cements have an additive containing a water-repellent component which is interground with the cement during manufacture. No other additives are necessary, unless specified.

**Water:** All water should be clean and free from organic material and deleterious amounts of dissolved acids, alkalis and salts.

**Retempering:** To minimize retempering, mortar should not be mixed more than 15 minutes prior to use. Retempering will not adversely affect mortar quality if only evaporated water is replaced. Colored mortar should not be retempered.

**Tooling of Joints:** Tooling of mortar joints increases the density, durability and water tightness of the mortar surface. The moisture content of the mortar when tooled will affect the color; the drier the mortar, the darker its final color.