

<b>Application</b>	<b>General</b>	<p>Prior to use of any additive, good job practice involves mixing a trial batch of formulated product and determining the set time. Once the set time is known, a measured amount of USG Retarder/water mixture is added to adjust the set. Any available container (wax cup, coffee can, measuring cup, etc.) can be used to measure the retarder/water mixture. Also, it is a good practice to always keep the mixing equipment clean between batches to prevent quick-setting action from occurring in subsequent mixes.</p>
	<b>USG Standard or High Strength Retarder</b>	<p>All retarders should be mixed with water before adding to plaster. Mix one teaspoon of dry USG Standard Strength Retarder with five fluid ounces of water to prepare a solution that will extend the set time of 100 pounds of gypsum plaster by 30-40 minutes or more. Mix one teaspoon of dry USG High Strength Retarder with five fluid ounces of water to prepare a solution that will extend the set time of 100 pounds of conventional gypsum plaster by 1 to 3 hours.</p> <p>For larger quantities, mix an entire 1-1/4 lb. container of either USG Standard or High Strength Retarder with five gallons of water in a convenient size container to prepare the retarder solution. Slowly add retarder to the water and stir until the retarder is dispersed. Screen out any retarder lumps that may have formed. These lumps will cause soft discolored spots in the plaster surface. Note that retarder is only dispersed in water and not dissolved, thus prolonged standing will allow the retarder to settle out. Always stir the retarder mixture before using. Poor dispersion increases the possibility of variable sets and soft unset spots in the plaster surface.</p>
	<b>USG Retarder for Lime Containing Plaster Products</b>	<p>USG Retarder for Lime Containing Plaster Products should be added directly to the mixing water prior to the addition of plaster. Once the proper amount of retarder is added, the water should be stirred to dissolve the retarder. As little as 1/4 to 1/2 teaspoon per 50-lb. bag of lime containing plaster will extend the setting time by 20 minutes.</p>
<b>Cleanup</b>		<p>Clean mixing containers and tools with water immediately after use.</p>

**Trademarks**

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**Note**

Products described here may not be available in all geographic markets. Consult your U.S. Gypsum Company sales office or representative for information.

**Notice**

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**SAFETY FIRST!**

Follow good safety practices. Read material safety data sheets and related literature on products before specification and/or installation.

