

# SYSTEM 22 HC

## Cement Surface Set Retarder

### DESCRIPTION:

*System 22 HC* is a ready-to use set retarder for cement-based materials. It can aid in exposing aggregate in concrete, cement plaster, mortars, and patching compounds, by spraying on the surface. It can also increase set times and working times in cement based materials, by direct addition to the mix.

**APPLICATION:** *System 22 HC* to expose aggregate

1. *System 22 HC* is used full strength as supplied, and is most effective if applied using a polyethylene misting bottle.
2. *System 22 HC* should be applied immediately after finishing or tooling stucco, mortar, or cement-based patching compounds such as *Custom System 45*.
- a. **Stir contents thoroughly.** Product ingredients may separate or settle upon prolonged storage. Mix to a uniform, clear appearance.
- b. **Minimum temperature is 40°F.** Air, surface, and product temperatures must be above minimum.
- c. Apply by lightly misting surfaces on which embedded aggregate is to be exposed. This will prevent cement at the surface from setting. Maintain the surface in a damp condition by covering or repeatedly misting with *System 22 HC*. After periods ranging from 1-3 hours, depending on conditions, cement below the surface will achieve initial set. Test rinse a small area with clean water to determine weather material has set to the extent desired. If more than 1/8" of surface material is washed away or if aggregate is dislodged, stop and allow curing time as

required. When sufficiently set, rinse surface thoroughly to expose aggregates. Avoid using pressures or water volumes sufficient to disrupt set materials.

**APPLICATION:** *System 22 HC* to increase set time and working time.

1. *System 22 HC* is used full strength as supplied.
2. *System 22 HC* is added to the mixing liquid before mixing.
3. Addition levels should be determined by mock-ups since addition levels can vary greatly depending on mix design, weather conditions, and desired effect. Typically, additions levels of about 4 ounces of *System 22 HC* per 50 lbs of material can result in a 50% increase in set times under normal conditions.
4. Good working practice should still be following when using *System 22 HC* in cement based materials. Materials should not be re-tempered after initial set, materials should be stored in cool and dry locations, materials should have sufficient cure time and set time before initial water exposure, non-polymer modified materials should be damp cured a minimum of 72 hrs, materials should not be applied in direct sun, and the minimum amount of mixing liquid should be used to achieve a workable consistency to decrease shrinkage.

### STORAGE AND HANDLING:

**KEEP FROM FREEZING!** Avoid eye and prolonged skin contact. For complete safety and handling information, refer to Safety Data Sheets.

**FOR COMMERCIAL & INDUSTRIAL USE ONLY**



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