Foaming agents for the production of cellular concrete are either protein based or synthetic based materials. Richway produces only synthetic based foam concentrates. They offer much longer shelf life, have no obnoxious odor, and perform well under a variety of conditions. Desired foam life, water quality, (including hardness, water temperature, and other materials in the water) and other factors are important in selecting a foam concentrate.

CreteFoam CMX is proven in a wide range of cellular concrete applications. There are many factors in achieving quality cellular concrete material. Having the right foam concentrate is one of them. CMX performs with higher carbon contents, tough placements conditions, and is proven to withstand higher lifts.

With over 40 years of foam concentrate formulation development, manufacturing, and testing, Richway is able to provide superior foam concentrate for all of your cellular concrete applications.

Complies with all Specifications of ASTM C869

Bubble size, an important variable in compressive strength of cellular concrete is determined by both the foam generation equipment and the foam concentrate used.
CreteFoam CMX is a foam concentrate designed for the production of externally generated foam for use in producing cellular concrete. It is compliant with the specifications of ASTM C869, as tested by an independent ASTM recognized laboratory using ASTM C796 test protocol.

“CMX” is a proprietary surfactant blend which, when used with properly designed foam generation equipment, produces a tight and uniform bubble structure with excellent life. It may also be added directly to a slurry mixture to provide air entrainment by the use of high speed mixing, though the resultant mix is not as well controlled as with the use of externally generated foam.

**Physical Properties**
- **Appearance:** Light green liquid
- **Weight/Gal:** 8.5 lbs/gal (1.02kg/l)
- **Flash Point:** > 201 F (93.89 C)
- **Solubility:** Soluble in hot, cold, hard or soft water
- **Dilution Rate:** Use at a rate from 0.5 to 4 ounces per gallon (.37 g/l to 29.96 g/l) of water depending on water “quality” and foam generator used
- **Shelf Life:** Normal shelf life from one to two years
- **Storage Conditions:** It is preferred, though not required, to store above 32 F (0 C) Should CMX freeze, it may be necessary to slowly warm and mildly agitate to return to homogeneous state

The externally generated foam is normally added to the concrete slurry mixture at the jobsite, either directly into the mixer, into the hopper of a volumetric mixer truck, or in-line into a pumped slurry mix. Other methods may be employed at the discretion of and after testing by the user.

*It is the responsibility of the user to thoroughly test CMX under actual conditions and using the locally available materials that will be used in the final project.*

CMX is compatible with most admixtures and materials used in concrete, but should be tested before use. High dose rates may cause occasional problems with foam life. CMX shows excellent strength and life with many types of placement equipment, including pumps, but again, should be tested. Should not be used with other surfactants without thorough testing, as unintended reactive changes may occur.

CMX is non-combustible and non-flammable, and essentially poses no hazards to humans. Like any other chemical, precautions should be taken when using and if any gets on the skin it should be washed off. In the eyes it should be rinsed with copious amounts of water.

CreteFoamer, CreteFoam, and CMX are trade marks of Richway Industries. CMX is manufactured by Richway Industries.