



Topaz Industries

Topaz Industries Inc.

Accel-100

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Accelerating, plasticizing, waterproofing and water reducing admixture for concrete, mortar and stucco.

PURPOSE:

This clear, colorless liquid concentrate is a chemically balanced formula which reacts with the portland cement in concrete and mortars to increase their strength and density, thus making them more waterproof.

Whenever portland cement is used, ACCEL-100 adds superior waterproofing qualities at nominal cost. Although designed for use in foundation walls and floor slabs, ACCEL-100 is also valuable in mortars, stuccos, and for grouting and patching work. The addition of **ACCEL-100** to the mix promotes more complete dispersion of the cement, accelerates the "set" and assists the process of hydration.

ACCEL-100 produces the desired plasticity and flow characteristics which air entrainment provides, no further admixtures are necessary or desirable for this purpose.

ADVANTAGES:

INCREASED STRENGTH: ACCEL-100 lowers the surface tension of the mixing water thus reducing the water/cement ratio. Both early and ultimate strengths are increased at all temperatures.

COLD WEATHER BENEFIT: ACCEL-100 is especially effective in cold weather enabling concrete, masonry or stucco to be placed at temperatures as low as 15 degrees F.

IMPROVES WORKABILITY: Better flow (increased slump) is obtained without change of the water/cement ratio, or the same flow (equal slump) may be obtained with less water, producing a denser concrete, mortar or stucco.

REDUCED PERMEABILITY: Tests subjecting 5 inch diameter x 5 inch high cylinders to 20 psi water pressure for a one year period indicate that those cubes incorporating ACCEL-100 were more impermeable than any other type of ?set? accelerator tested.

REDUCES SHRINKAGE: Since **ACCEL-100** reduces the water/cement ratio, test results indicate marked reductions in shrinkage, thus minimizing the possibility of shrinkage cracks.

SAVES LABOR TIME: Since high early strengths are achieved at low temperatures, concrete may be finished earlier, forms may be removed sooner, thus allowing for less overtime and minimal delays in job schedules.

[Vendor Information](#)