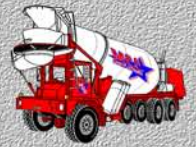




OUT OF THE CHUTE . . .

SMART 6



With today's construction practices and time schedules, it has become apparent that what the contractor needs and wants is concrete which is both placeable and durable. In order to optimize placement time and reduce labor, the contractor has been forced to place concrete at slumps which are higher than the ready mixed producer has designed. All too often the material is placed at a water slump of 5 to 6 inches.

This habit effectively reduced labor costs and placement times, but product quality was sacrificed. Superplasticizers have been in the concrete market for years but their cost has reduced their use, and most of the time the contractor doesn't need slumps of 8 or 9 inches. Supers also have not been well known for their finishability. Superplasticized flatwork concrete has often been called "sticky" and "hard to finish".

As a realistic option, MCC, Inc. and The Euclid Chemical Co., have developed a proprietary combination of admixtures and production procedures which will allow us to provide the contractor with practical placement slumps of 4 to 6 inches, while maintaining normal quality concrete product characteristics. Placement labor and time can be reduced without sacrificing quality, whether placement is done by truck chute, conveyor, pump or bucket. The product can also be used to reduce the water content of the mix when placed in the 2 to 4 inch slump range. This will reduce the water / cement ratio and provide a higher quality concrete with less shrinkage potential. Additionally, the product has been proven to improve finishability, and also ease some of the weather related finishing problems.... yes, even in windy conditions!

- ★ **REDUCED PLACEMENT TIME**
- ★ **IMPROVED WORKABILITY**
- ★ **EASIER TO FINISH**
- ★ **NORMAL SET TIME**
- ★ **REDUCED BLEEDING**
- ★ **ADDED PASTE VOLUME**
- ★ **REDUCED SEGREGATION**
- ★ **IMPROVED SURFACE FINISH**

Compressive Strength Performance:

Mix	7 day		28 day	
	PSI	%	PSI	%
Normal	3250	X	4210	X
MCC-Smart 6	3690	113	4670	111

Setting Time Performance:

Mix	Initial Set Difference	
	Hours:Minutes	Hours:Minutes
Normal	4:10	X
MCC-Smart 6	4:20	+10

Product data was developed to compare normal concrete placed with an extended water slump to concrete placed incorporating the MCC Smart 6 product. The data shown is based on controlled laboratory tests. Reasonable variations from the results shown here may be experienced as a result in differences in concrete making materials and jobsite conditions.



Perhaps You've Forgotten...

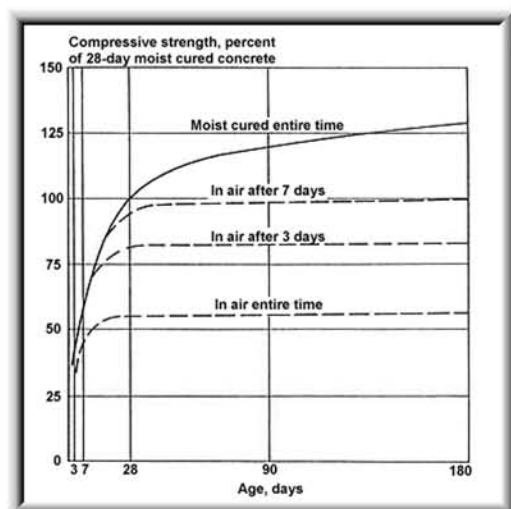
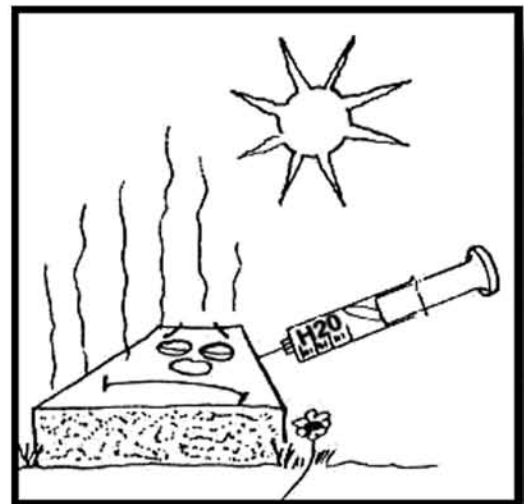
IMPROPER OR NEGLECTED CURING CAN SEVERELY REDUCE CONCRETE QUALITY, EVEN THOUGH PROPERLY PROPORTIONED, MIXED AND PLACED.

The object of curing is to retain moisture, or replace moisture while the concrete gains strength. This is particularly critical during the early stages when most of the cement hydrates.

Inadequate or lack of proper curing reduces the compressive strength of the concrete and increases its permeability. High permeability leaves the material at risk for damage from de-icer scaling.

Use an evaporation retardant on the surface of the concrete such as "Eucobar" from The Euclid Chemical Company. The product will help retain moisture in the surface of the concrete between finishing operations, and prior to the application of the curing agent.

Use a quality curing compound.
A curing compound properly applied is the equivalent of a 14 day moist cure if kept intact for a full 28 days. Apply the curing compound per the manufacturer's specifications including coverage rate. Extending the recommended coverage rate can severely reduce the product's ability to properly cure the concrete.



CONCRETE STRENGTH INCREASES WITH AGE, AS LONG AS MOISTURE AND FAVORABLE TEMPERATURES ARE PRESENT FOR THE HYDRATION OF THE CEMENT

