



## Admixtures

Q: **At what temperature will concrete in its plastic state freeze?**

A: 29°F or 3°C

Q: **Do the RHEOMAC SF100 bags dissolve?**

A: No, they are shredded by the force of the mixing action. Bags were improved in 1997.

Q: **How do you get pricing for MBT s admixtures?**

A: By calling the closest MBT Regional office to you and asking the local admixture representative for your particular city.

Q: **How is the dosage of an air-entrainer affected by the use of other admixtures in a mix?**

A: The dosage may have to be adjusted (up or down) to compensate for any air that the other admixtures may cause or eliminate.

Q: **I usually use CaCl at 1% and 2%, what dose of POZZOLITH NC534 or POZZUTEC 20 should I use in its place?**

A: It is always best to contact your local Master Builder's Sales Representative for admixture characteristics in your geographical territory. This is primarily due to the variance in concrete materials across the country.

Q: **If concrete has at least attained 500 psi and is exposed to a freeze/thaw cycle, will the concrete be affected?**

A: No, according to ACI 306. Durability will not be affected.

Q: **If more than one admixture is used in a mix, when are they dispensed?**

A: Admixtures that are compatible with each other should all be added separately into each mixture.

Q: **Is RHEOMAC UW450 compatible with other admixtures?**

A: Yes, except for admixtures containing naphthalenesulfonate.

Q: **What are the advantages of accelerators in cold and hot weather?**

A: Accelerators reduce in-place cost; improve pumpability and finishability, and increase early and ultimate compressive strengths.

Q: **What are the new Glenium® product names?**

A: Glenium 3000 NS, Glenium 3030 NS and Glenium 3200 HES

Q: **What do the letters at the end of each Glenium name signify?**

A: NS = Normal Set

HES = High Early Strength

Q: **What ASTM Specification covers air-entrainers?**

A: ASTM C260

Q: **What can be added to concrete to keep it from freezing at temperatures below 32°F?**

A: POZZUTEC 20, when used at the appropriate dosage, along with standard industry cold weather practices/procedures protects concrete from freezing down to 20°F.

Q: **What can be done to minimize shrinkage cracks?**

A: Using TETRAGUARD AS20 which is a shrinkage reducing admixture or by using a product that will reduce the initial water content.

Q: **What happens if an admixture freezes before I use it?**

A: Most, not all, of MBT s admixtures can be thawed at room temperature and reconstituted by mild mechanical agitation (not pressurized air). Some are in fact are not savable, check with your local sales representative or call TIS.

Q: **What is DELVO Stabilizer?**

A: It is an admixture used to control the rate of hydration between cement particles for returned plastic concrete, long haul jobs, and/or overnight and weekend stabilization.

Q: **What is the ASTM Standard Specification for Chemical Admixtures for Concrete?**

A: ASTM C494.

Q: **What is the difference between a High Range Water**

**Reducer and a Mid Range Water Reducer?**

A: High Range Water Reducers offer water reduction greater than 15% and slumps of 8 to 11 inches. Mid Range Water Reducers offer water reduction between 5% and 15% and slumps 6 to 8 inches.

Q: **What type of admixture can help minimize cold joints?**

A: Retarding admixtures.

Q: **Why use an air-entrainer?**

A: Air Entraining Admixtures are beneficial to concrete used in outdoor applications exposed to freeze/thaw cycles. The air voids help to allow water to freeze and expand into them instead of forcing the concrete to crack.

Q: **Will a retarder help to reduce thermal cracking in a mass pour?**

A: Yes, a product such as DELVO Stabilizer has been proven to actually reduce the over-all temperature of a concrete mixture during the heat of hydration process.