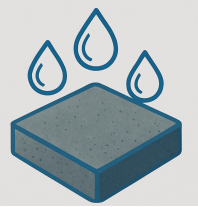

Technical Data Sheet

APPLICATION PROCEDURES

HYDROCRETE - INTERNAL CURING ADMIXTURE PROCESS (PART A & PART B)

HydroCrete admixtures provide the best path towards optimizing hydration in your internal curing process. Never guess again when it comes to curing.

HydroCrete ADVANTAGES

- Improves low water-cement ratio concrete workability
- Increases early yield strength development compressive and flexural
- High durability and increased density
- Reduces susceptibility to the negative effects of freeze/thaw cycles
- Reduces water content needed for a given workability (12-40%)
- Reduces surface bleeding and evaporation
- Reduces cracking, crazing, curling, creep and shrinkage
- Increases cohesiveness
- Improves concrete finishing and workability
- Improves concrete pumping characteristics
- Maintains slump life during extended mixing times
- Plasticity range of 8 to 11 inches
- Improves bond strength to reinforcement
- Reduces permeability and salt penetration
- Raises productivity and with lower labor inputs
- Removes the need for normal mid-range and high-range water reducers
- Flowable concrete, reduced segregation
- Replaces SCC admixtures by adjusting batching sequencing and adjusting dose
- Reduction of vibration needs of concrete
- Early form stripping with early strength concrete approaches
- Reduces air entrainment dosing needs from 50-70%
- Excellent handling characteristics - 18 months normal shelf life expectancy
- Aids in temperature control when max temps are specified
- Improves workability and finishing for type 1L cement

COMPATIBILITY

- Compatible with all types Portland cement, class C and F, fly ash, silica fume, fibers, and approved air entraining admixtures (call for capability questions)
- White, integral colored, and architectural concrete
- For best results, each admixture must be introduced separately into the concrete mix

STORAGE

- May freeze at temperatures below 35 degrees F° (2 degrees C°)
- Freezing will not harm product, however, precautions should be taken to protect
- If frozen, thaw product at 45 degree F°, use mechanical agitation
- If frozen DO NOT USE mechanical agitation

USAGE INSTRUCTIONS

1. The HydroCrete - internal curing admixture process has two parts. Internal Curing Admixture - Part A and Internal Curing Admixture - Part B. These are both headwater treatments.
2. Part A and Part B are added to headwater at 1oz per hundred weight calculations.
3. Performance may be influenced by actual temperatures, and while dosage chart serves as a general guide, as with all concrete mixes, it is advisable to conduct testing before deploying in large-scale applications.

SPECIFICATIONS

Conforms to:

ASTM C 494 Types A and F

AASHTO M 194 Types A and F

CRD C 87 Types A and F

All other Federal and State specifications

DOSAGE RATE

The recommended dosage of **HydroCrete**

Concrete Temperature	ACI Guidelines - 90 minutes (Dosage per 100 weight)
100 - 109	6.0
90 - 99	5.5
80 - 89	4.5
70 - 79	3.5
60 - 69	3.0