

ORIGINAL #19SA

ACCELERATED VISCOSITY MODIFYING ADMIXTURE FOR CONCRETE

PRODUCT DESCRIPTION: Original #19SA is a multi-purpose admixture that combines the benefits of Original #19 viscosity modified stabilization along with calcium chloride based acceleration for improved setting time and strength gain in colder temperatures. Original #19SA also contains a plasticizing agent that disperses the cement particles, provides lubricity to the concrete, and allows a lowering of the water to cement ratio in wet or high slump mix designs.

BENEFITS AND FEATURES: ACCELERATION FOR COLD WEATHER... BLEED CONTROL FOR WET MIXES... PROVIDES LUBRICATING PROPERTIES FOR BETTER COMPACTION WITH LESS SURFACE DEFECTS

BLEED / SEGREGATION CONTROL: Original #19SA decreases surface water bleeding and improves aggregate suspension due to its gelling action. The hydration water is held integrally in the mix (not pushed to the surface), resulting in concrete with reduced capillarity, improved workability and cohesiveness.

ACCELERATION: Original #19SA contains calcium chloride for faster initial strength gain and compressive strength development in cold weather pours or whenever faster mold turnover time is required.

WATER REDUCTION: Original #19SA allows for 5-10% water reduction depending on the dosage used. This provides higher end strengths with less surface defects, voids, or imperfections.

SHRINKAGE CONTROL: Original #19SA stabilizes the concrete mix and therefore decreases shrinkage potential or surface cracking common in wet mixes or hot, windy weather environments

DECREASED PERMEABILITY: Original #19SA provides a volume stabilized "closed cell" concrete structure that is less susceptible to water intrusion. This results in decreased surface damage from continuous freeze-thaw weather cycling and increased resistance to attack by deicing chemicals.

IMPROVED SURFACE APPEARANCE: Original #19SA intensifies color shades in decorative mixes containing iron oxide colorants resulting in improved appearance; uniformity and easier mixer clean out. Streaking, shade variations, and efflorescence formation are reduced or eliminated.

COMPOSITION: Medium viscosity modified proprietary gellant solution with lubricating additives and chloride

| PHYSICAL PROPERTIES at 70° F (21°C): | APPROXIMATE VALUES: |
|---|----------------------------|
| Weight per gallon: | 8.81 +/- 0.25 lb./ gallon |
| pH: | 8.0 +/- 0.5 |
| Color: | Clear reddish liquid |
| Viscosity –Brookfield: | 1150cps +/- 150 cps |

TECHNICAL DATA: Independent laboratory test data for Original #19SA is available upon request

RECOMMENDED ADDITION RATES: Dosage of Original #19SA varies from 3-16 ounces per 100 lbs. of cement (196-1045 ml/100 kg) depending on the mixer type, mix design component levels, water to cement ratio, and additional admixture requirements. A starting dosage of 3-4 ounces per 100 lbs. of cement (196-261 ml/100 kg) is suggested, with increasing amounts as needed to control surface bleed water. Specco recommends a trial mix be conducted with actual production materials in order to determine the optimum dosage for specific set time or strength requirements. Refer to Cautions Section for additional information.

DIRECTIONS FOR USE IN AUGER MIXERS: Original #19SA may be dispensed with automatic liquid dispensers, but will require dilution with water for proper flow consistency. Refer to Specco's Admixture Tank calibration sheet for suggested dilution ratios.

DIRECTIONS FOR USE IN PADDLE, RIBBON, OR PAN STYLE MIXERS: Mix concrete with or without additional plasticizers or air entraining agents to the desired consistency (See Cautions Section below). Add the required amount of Original #19SA as needed to help bind excess bleed water in the mix, producing a creamy mix consistency. Add Original #19SA solution slowly to the mixer at the end of the mixing cycle (while agitating) to avoid higher air entrainment levels.

CAUTIONS: Original #19SA is compatible with most other admixture types; however they should always be added separately to the mix to avoid any possible chemical interaction. For example, air-entraining agents based on vinsol resin and superplasticizers based on naphthalene sulfonate are not compatible in the same admixture tank with Original #19SA however, they can be added separately if needed. Original #19SA is miscible (compatible) with additional chloride and non-chloride based accelerators, but these should also be added in separate admixture tanks if possible.

Original #19SA contributes to air entrainment levels. Specco recommends that any separate air entraining agent additions to the concrete mix should be reduced at least 50% when using Original #19SA and the resulting mix should then be checked for accuracy to stay within the desired level. NOTE: Due to the viscosity modifying characteristics of #19SA and the effects on water permeability, air entrainment levels measured by the standard pressure volume meter may not be accurate, and should be re-checked by weight difference interpolation versus a control or volumetrically. Avoid excessive vibration when using #19SA, which can decrease the resulting concrete air content and may generate increased surface defects or aggregate segregation, especially in precast related work.

Keep from freezing. If frozen loosen cap, lid or bung and allow solution to thaw and mechanically agitate before using. The solution will be restored and can then be used. Do not use pressurized air for mixing or agitation. Original #19SA should be stirred before using if the material has set for an extended period (3-6 months).

WARNINGS: Avoid contact with skin and eyes. Wear protective clothing and safety glasses during application. Keep away from food and drink. Do not take internally. Refer to product M.S.D.S. (Material Safety Data Sheet) for further health and safety information. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

H.M.I.S. CODES: HEALTH = 1, FLAMMABILITY= 0, REACTIVITY = 0, PERSONAL PROTECTION = C (GLOVES, GOGGLES, APRON)

SHIPPING NAME: Concrete Admixture – Water base - Not regulated

PACKAGING: 1 gallon (3.78 L), 5 gallon (18.9 L) pails, 55 gallon (208 L) drums, 265 gallon (1000 L) containers.

STORAGE: 40° to 90° F. Protect from freezing and excessive heat.

SHELF LIFE: 1 year properly stored

LIMITED WARRANTY: This product is warranted to be of merchantable quality when used according to the instruction herein. It is not warranted to be suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of the product as purchased, if found to be defective upon inspection by the manufacturer. This limited warranty is issued and accepted in lieu of all other expressed warranties and explicitly excludes liability for consequential damages. Buyer assumes all risk and liability resulting from the use of this product.

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