



VEXCON
CHEMICALS, INC.

Protecting and improving concrete since 1974

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STARSEAL[®] TRIPLE SET

Meets ASTM C 494 Type C Admixture
Concrete and Masonry Accelerating Admixture – Dust Control

DESCRIPTION

STARSEAL TRIPLE SET is an accelerating admixture for use in concrete, Portland Cement and mortar. StarSeal Triple Set is a ready to use liquid, added directly to the gauging water to reduce the water requirements and set times of concrete and mortar mixes. StarSeal Triple Set improves workability, increases the early high and ultimate strength of structures, and improves wear resistance properties. Through the use of exclusive rust preventive additives, StarSeal Triple Set reduces chloride ion corrosion of reinforcing steel.

BENEFITS

- Reduces set time in cold weather applications
- Reduces mix water requirements
- Increases the high early and ultimate strength of concrete and mortar
- Improves workability
- Helps fight corrosion and reduces efflorescence
- Assists in cold weather concrete scheduling
- Ready to use liquid
- Enhances the effects of air entraining agents

SPECIAL NOTES

GENERAL:

- When temperatures are below 25° F (-4° C) for long periods where cementitious products are being placed, supplemental heat is required as per the recommendations of the American Concrete Institute.
- When using StarSeal Triple Set, exposed metal should first be coated with **Certi-Vex[®] AC1315** at low temperature ranges (0° - 40° F)

MASONRY APPLICATION:

- When working with mortars limed in equal proportions to the cement, double the amount of StarSeal Triple Set required. For different mix ratios contact Vexcon directly before usage.
- Check StarSeal Triple Set on a small amount of specialty mortars before use.

CONCRETE APPLICATION:

- When using on concrete mixed on the job site from bags, calculate the ratio based on anticipated yield of mix in cubic yards. For example, if mixing 1/2 cubic yard of Concrete above 25° F., 2 quarts of StarSeal Triple Set should be added to the gauging water. The gauging water should be reduced 10-15% to achieve desired slump.

APPLICATION

MASONRY: StarSeal Triple Set reduces water requirements to achieve desired slump by as much as 15%. StarSeal Triple Set will enhance the effect of air ENTRAINING agents. Mix StarSeal Triple Set with the gauging water, NEVER ADD DIRECTLY TO THE DRY CEMENT.

LOWEST ANTICIPATED TEMPERATURE FOR 24 HRS.

Above 50° F

50-32° F

32-25° F

Below 25° F

instructions in the SPECIAL NOTES "MASONRY APPLICATION" section of this bulletin

CONCRETE: Add StarSeal Triple Set with water and agitation to ready mix concrete, do not dispense directly onto dry cement. When air temperatures are below 50° F (10° C) follow "Recommended Practice For Cold Weather Concreting" of the American Concrete Institute. StarSeal Triple Set reduces water requirements to achieve desired slump by as much as 15%. Air entrained concrete mixes containing StarSeal Triple Set display improved efficiency. When making air entrained cement, a batch test is required to determine reduced levels of entraining agent required to achieve required or desired air entrainment levels.

LOWEST ANTICIPATED TEMPERATURE FOR 24 HRS.

Above 50° F

50-25° F

Below 25° F

instruction in the SPECIAL NOTES "CONCRETE APPLICATION" section of this bulletin.

CERTI-VEX TRIPLE SET

DOSAGE PER BAG OF MORTAR

Monitor application rate to desired acceleration.

1 pint per bag

1 quart per bag

1 1/2 quarts per bag and follow

instructions in the SPECIAL NOTES "MASONRY APPLICATION" section of this bulletin

STARSEAL TRIPLE SET

DOSAGE PER YARD OF CEMENT

Monitor application reate to desired acceleration

1-1.5 gallons per cu yard

1-1.5 gallon per cu yard and follow

DUST CONTROL: Spray StarSeal Triple Set with power sprayer on road at 350 sq./ft./gal. to reduce dust. StarSeal Triple Set as it dries is hydroscopic and will continue to keep surface wet holding down dust.

SPECIFICATIONS

- Meets USEPA AIM and OTC VOC regulations
- Meets all requirements of ASTM C 494 for Type C admixtures
- VOC Content: 0 gr./liter
- CSI reference: 03 31 00

PACKAGING

StarSeal Triple Set is available in 55-gallon drums, 5-gallon pails and 1-gallon units. Also available in totes, bulk containers and bulk shipments. Contact Vexcon directly to discuss your customized packaging requirements.

VITAL STATISTICS

- Boiling Point: 212° F (100° C)
- Autoignition temp: ND
- Extinguishing media: CO₂ Extinguisher

PHYSICAL PROPERTIES

- Color Light Blue
- Baume 32 degrees
- Solids 29%
- Specific gravity 1.28 - 1.30
- Wt/Gal 10.7#
- Wt. of Calcium Chloride 3.98 #/gal
- Freezing Point -50° F (-46° C)
- pH 10.7 - 10.8

HEALTH AND SAFETY

- CAUTION: May irritate mucous membranes
- Long term overexposure may cause damage to skin and/or respiratory tract.
- Use only with adequate ventilation
- Use of gloves, goggles and other protective clothing is advised when using this product.
- If swallowed, do not induce vomiting.

Vexcon MSDS #AB104 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using product, it is advisable to obtain a copy of the MSDS from your distributor or by contacting Vexcon Chemicals.

SHELF LIFE

If properly stored in its original sealed container, three years from date of manufacture. Rotate your stock

CONTACT US @

Additional product information, technical assistance and customer service is available by contacting Vexcon Chemicals directly or our distributors.

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