

## TECHNICAL DATA SHEET



**Water-reducer Plasticizer  
Waterproofing Admixture.**



## DESCRIPTION

**SM5® CAP WP** is a water-reducer, plasticizer, and waterproofing agent for concrete. When added to mixing water, it deflocculates cement particles and reduces surface water tension. This leads to a reduction in mixing water, increased workability, and complete hydration of cement. **SM5® CAP WP** is chloride-free and water-soluble.

## PROPERTIES

**Water/Cement Ratio Reduction:** Reduces the Water/Cement ratio by 8 to 12%, improving the compactness of fresh concrete and slightly increasing mechanical strength compared to a reference specimen.

**Water Tightness:** Provides lasting tightness against capillary bleeding and pressurized water.

**Shrinkage Reduction:** Reduces shrinkage, prevents sweating, segregation, and loss of laitance.

**Enhanced Steel Casing:** Improves the casing of steel within the concrete.

## CHARACTERISTICS

### Scope of Use:

Recommended for structural concrete applications such as foundations, tanks, swimming pools, dams, river locks, and road works.

## **Applicable Standard:**

**Classification:** ASTM C 494 Types A & D

## **INSTRUCTIONS FOR USE**

**SM5® CAP WP** should be added to the mixing water. The total concrete mixing water should be reduced by 5% to 10% prior to the introduction of **SM5® CAP WP**. Adjust the consistency by adding small quantities of water until the desired plasticity is achieved.

## **DOSAGE RATES**

**Waterproofing:** 0.5 kg per 100 kg of cement.

**Increased Plasticity:** Dosage may be increased up to 1.5 kg per 100 kg of cement if more plasticity is required.

## **RETARDING EFFECT**

At a dosage higher than 1.5% of the cement mass, the onset of concrete setting may be delayed, depending on the cement quantity used.

## **PACKAGING**

Available in bulk, 200-liter and 25-liter drums.

## **STORAGE**

Store **SM5® CAP WP** for up to 1 year from the manufacturing date under cover, away from direct sunlight, and protected from extreme temperatures.

## **HEALTH & SAFETY**

If exposed to frost, the product will recover its properties after progressive thawing and agitation. In case of contact with skin or eyes, rinse thoroughly with water. If irritation persists, seek medical attention. If swallowed, do not induce vomiting; seek medical attention immediately.

## **QUALITY STATEMENT**

All products are manufactured according to our internal QA/QC program and quality management system, ensuring consistency and quality.

## DISCLAIMER

While the company guarantees its products against defects, the use and application of these products are provided without guarantee since the application conditions are beyond our control. Always verify that the product is suitable for the intended use and that this Data Sheet is the most recent version. The company reserves the right to modify it without prior notice. Technical characteristics are provided for guidance only.

For more information, please contact the company's office in your location.

---

### FOR TECHNICAL SERVICES

**VELOCITY®** green energy, LLC.  
P.O. Box 16506, Irvine CA 92623, United States  
Contact us at: **(949) 468-2742**  
**(888) 508-6191**



**SCAN HERE**



**End of Technical Data Sheet**