



W-50 PLASTICIZER

HYDRATION & PLACEMENT AID FOR SEMI-DRY CONCRETE MIXES

PRODUCT DESCRIPTION: *Specco W-50 Plasticizer* is a neutral, biodegradable, lubricating liquid chemical additive designed to reduce shrinkage and cracking that can occur in low slump concrete mixes. The lubricating properties of *W-50 Plasticizer* also contribute to easier placement and extrusion of the concrete while providing a smooth, densified surface.

BENEFITS / FEATURES

SHRINKAGE CONTROL: *W-50 Plasticizer* stabilizes the concrete mix and therefore decreases shrinkage potential and related surface cracking common in hot, windy weather environments. The hydration water is held integrally in the mix (not pushed to the surface), resulting in concrete with reduced capillarity, improved workability and cohesiveness.

IMPROVED SURFACE APPEARANCE: *W-50 Plasticizer* 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. Increased surface wetting allows improved color retention, as well as increased adhesion of accent release colored topcoat pigments

EASIER PLACEMENT: *W-50 Plasticizer* reduces voids or surface defects in the concrete placement and adds workability to the concrete with reduced troweling or finishing requirements.

DECREASED PERMEABILITY: *W-50 Plasticizer* provides a volume stabilized “closed cell” concrete structure 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.

COMPOSITION: Viscosity modified sulfonate-based solution. *W-50 Plasticizer* does not contain any calcium chloride or intentionally added chlorides that would initiate or promote corrosion of reinforcement steel or contribute to efflorescence.

LEED CREDIT CONSIDERATIONS: MR Credit 5.2: Regional materials-Greater than 20% extracted, processed and manufactured regionally at production location: Kankakee IL 60901. 90% Content-Harvested within 500 miles

PHYSICAL PROPERTIES at 70° F (21°C):	APPROXIMATE VALUES:
Weight per gallon:	8.38 +/- 0.50 lb./ gallon
pH:	8.00 +/- 0.50
Color:	Clear-pale yellow liquid
Viscosity –Brookfield:	1600 +/- 100 cps

RECOMMENDED ADDITION RATES: *W-50 Plasticizer* is typically added at a rate of 1-2 ounces per 100 lbs. (196-1045 ml/100 kg) of cement. Variations in dosage can be made depending on the mixer type, mix design component levels, water to cement ratio, and additional admixture requirements. 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: *W-50 Plasticizer* should be diluted with water for easier pumpability when dispensed with automatic liquid dispensers for proper flow and consistency.





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**). Add the required amount of diluted **W-50 Plasticizer** as needed at the end of the mixing cycle (while agitating) to produce a creamy mix consistency.

CAUTIONS: **W-50 Plasticizer** 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 **W-50 Plasticizer**, however, they can be added separately if needed. **W-50 Plasticizer** is miscible (compatible) with most chloride and non-chloride-based accelerators, but these should also be added in separate admixture tanks if possible. As calcium chloride additions increase air entrainment levels in concrete, the air content should be adjusted downward accordingly to stay within specification (typically 6-8%) as needed.

W-50 Plasticizer contributes to air entrainment levels. Specco recommends that any separate air entraining agent additions to the concrete mix should be reduced at least 25-50% when using **W-50 Plasticizer** and the resulting mix should then be checked for accuracy to stay within the desired level. NOTE: Due to the viscosity modifying characteristics of **W-50 Plasticizer** 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.

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. **W-50 Plasticizer** should be stirred before using if the material has set for an extended period (3-6 months).

GHS HAZARD RATINGS: WARNING



Irritant: Respiratory Tract Irritation.

WARNINGS: IRRITANT: Avoid contact with skin and eyes. Wear protective clothing, safety glasses, and NIOSH/OSHA approved vapor/mist respirator during application. Keep away from food and drink. Do not take internally. **FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. Refer to product S.D.S. (SAFETY DATA SHEET) for FIRST AID INFORMATION, or any related health and safety information before using this product. For medical emergencies only, call INFOTRAC @ 800-535-5053.**

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

SHIPPING CLASS: ITEM 33880, SUB 2, Freight Class 55

STORAGE: Ideal storage is 60° to 80° F. Keep from freezing.

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

SHELF LIFE: 1 year stored properly. Depending on storage conditions, the shelf life may be extended

WARRANTY: Specco Industries Inc (Specco) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Specco, no other representations or statements made by Specco or its representatives, in writing or orally, shall alter this warranty. **SPECCO MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME.** If any Specco product fails to conform with this warranty, Specco will replace the product at no cost to Buyer. **Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages.** Specco does not authorize



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