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 top coat 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

<table>
<thead>
<tr>
<th>PHYSICAL PROPERTIES at 70° F (21°C):</th>
<th>APPROXIMATE VALUES:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight per gallon:</td>
<td>8.38 +/- 0.5 lb./gallon</td>
</tr>
<tr>
<td>pH:</td>
<td>8.0 +/- 0.5</td>
</tr>
<tr>
<td>Color:</td>
<td>Clear-pale yellow liquid</td>
</tr>
<tr>
<td>Viscosity –Brookfield:</td>
<td>1600 +/- 100 cps</td>
</tr>
</tbody>
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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 Caution 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 60º to 80º 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 anyone on its behalf to make any written or oral statements which in any way alter Specco’s installation information or instructions in its product literature or on its packaging labels. **Specco explicitly excludes any written or oral statements or implied warranty on the performance of an applied/installed product manufactured or sold by or through Specco. Specco has no control over Specco application standards adherence, site conditions, atmospheric variations, installer/applicator skill level or the determination of the suitability of any Specco products for a specific intended purpose. Buyer shall be solely responsible for determining the suitability of Specco’s products for the Buyer’s intended purposes. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind.** **Revised 07-17-15**