



# W-25 WATER REDUCER

## MID-RANGE WATER REDUCING & PLASTICIZING ADMIXTURE FOR CONCRETE

**PRODUCT DESCRIPTION:** Specco *W-25 Water Reducer* is a multi-component water-reducing admixture which can be used over a wide concrete slump range. *W-25 Water Reducer* allows ideal mid-range water reduction of 5-20% depending on dosage rate. *W-25 Water Reducer* will allow easy flowability and pumping of high slump concrete with increased early and final strengths. W-25 water reducer can be used in ready mix, mobile mix, block, precast, pre-stressed, concrete, mortars, and grouts.

### BENEFITS:

- Superior workability and finishing with reduced water content for a given slump
- Compressive and flexural strength increases at all ages
- Ideal choice for precast counter or table tops, due to decreased bleeding & segregation
- Provides denser concrete with increased durability against damage freeze/thaw damage

**COMPOSITION:** Low viscosity modified lignosulfonate based solution. *W-25 Water Reducer* 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: EQ Credits 4.2:** Low emitting materials (VOC < 25 g/L). **MR Credits 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:	9.60 +/- 0.5 lb./ gallon
pH:	9.5 +/- 0.5
Color:	Brown liquid
Viscosity –Brookfield:	10 cps

**TECHNICAL DATA:** Specco *W-25 Water Reducer* W is formulated to comply with **ASTM C-494 Type A and F guidelines**. *W-25 Water Reducer* is typically dosed at 8-24 oz. per 100 lbs. of cement (520-1560 ml/100 kg) for most applications. The dosage can be increased as needed to allow more flowability along with corresponding higher percent of water reduction. Specco recommends a field test or trial mix be run in order to determine the optimum dosage needed for the specified slump requirements.

### PERFORMANCE CHARACTERISTICS run @ 70°F (21° C) ambient temperature

MIX DATA:	W-25 Water Reducer Dosage:
Dosage, fl oz./cwt (ml/100 kg)	12 (780)
Cement, Type I lb/yd <sup>3</sup> (kg/m <sup>3</sup> )	500 (296)
Flow in (mm) – 5 drops	6 (153 +/- 5)
Air Content %	Non-Air Entrained

### STRENGTH GAIN VERSUS CONTROL @ 70° F (21° C)

Compressive Strength psi (mPa)	Plain (Control)	W-25 Water Reducer @ 12 oz/cwt (780 ml /100kg)
1 day Average	1300 ( 9.0)	2125 (14.6)
3 day Average	2850 (19.6)	4025 (27.7)
7 day Average	4450 (30.6)	4875 (33.6)
28 day Average	5125 (35.3)	6450 (44.4)





This data is based on controlled laboratory tests. Slight variations from the results shown here may be experienced as a result of jobsite conditions, different mix design components, or other factors.

**DIRECTIONS FOR USE:** Specco *W-25 Water Reducer* should be added to the batch water and aggregates, never directly to the dry cement. *W-25 Water Reducer* is compatible with concrete mixes containing a wide range of cements, slags, fly ash, silica fume, and aggregates. *W-25 Water Reducer* is also compatible with traditional air entraining agents or other admixtures; however, they should always be added separately into the mix. Add to concrete at the rate of 8-24 oz. per 100 lbs. of cement (520-1560ml / 100 kg depending on the amount of water reduction or flowability required).

**CAUTIONS:** Specco *W-25 Water Reducer* will freeze at approximately -15° F (-26° C), but may be completely restored by thawing above 32° F (0° C) and thoroughly mechanically agitating before use. Do not use pressurized air for mixing or agitation. Specco *W-25 Water Reducer* should be stirred before using if the material has set for an extended period (3-6 months).

**GHS HAZARD RATINGS: WARNING**



**Irritant: Skin & Eye Irritation.**

**WARNINGS: IRRITANT:** Avoid contact with skin and eyes. Wear protective clothing, safety glasses. 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 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.  
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