

W-25

MID-RANGE WATER REDUCING & PLASTICIZING ADMIXTURE

PRODUCT DESCRIPTION: Specco W-25 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, prestressed, 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 FROM FREEZING AND THAWING CYCLES.

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.

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 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 percents 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 DOSAGE:
Dosage, fl oz./cwt (ml/100 kg)	12 (780)
Cement, Type I lb/yd ³ (kg/m ³)	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 @ 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).

WARNINGS: Avoid contact with skin and eyes. Wear protective clothing and safety glasses during application. Keep away from food and drink. Do not take internally. Refer to product M.S.D.S. (Material Safety Data Sheet) for further health and safety information. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.

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, LTL 55

STORAGE: Ideal storage is between 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.

LIMITED WARRANTY: This product is warranted to be of merchantable quality when used according to the instruction herein. It is not warranted to be suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of the product as purchased, if found to be defective upon inspection by the manufacturer. This limited warranty is issued and accepted in lieu of all other expressed warranties and explicitly excludes liability for consequential damages. Buyer assumes all risk and liability resulting from the use of this product.

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