



# VERTASTONE™ ONE DAY WALL CARVABLE CONCRETE WALL SYSTEM

**PRODUCT DESCRIPTION:** Specco's *Vertastone™ One Day Wall System* is an easy to use three-component series of admixtures and surface treatments which can be added to regular low slump concrete to provide a form-free stackable, slow setting concrete that can be carved, stamped or formed to simulate realistic stonework. **Component A "Wall Aid"** is a modified mid-range plasticizing admixture which allows higher early strength formation of the concrete by reducing water demand by approx. 15-20%. **Component B, "Slow Set"** is a viscosity modifying, set retarding admixture which provides added rheology (thickness) of the mix to allow concrete stacking without form support, as well as extending final set times to allow the primary carving of the surface. **Component C, "Easy Slick"** is a topically applied surface finishing treatment which extends tooling time and allows delayed hydration at the surface for final stamping and texturizing needs.

### BENEFITS:

- Allows placement of free-standing walls without additional formwork or support structures.
- Walls can be carved, stamped and stained to mimic realistic natural stone formations
- Pouring form free allows great labor savings to traditional cast retaining walls
- Cast walls will be monolithic in structure and more resistant to any movement or blowout than walls made of individual cmu's (cast masonry block units) or by use of actual stones.
- Walls can be customized and colored to match or enhance the natural surroundings or buildings

**LEED CREDIT CONSIDERATIONS: 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:
Component A: Wall Aid:	Weight per gallon:	8.85 +/- 0.25 lb./gallon
	Color:	Brown liquid
Component B: Slow Set:	Weight per gallon:	8.35 +/- 0.25 lb./gallon
	Color:	Green liquid
Component C: Easy Slick	Weight per gallon:	8.85 +/- 0.25 lb./gallon
	Color:	Blue liquid

**TECHNICAL DATA:** *Vertastone™ One Day Wall System Component A Wall Aid* plasticizer is formulated to comply with ASTM C-494 Type A and F guidelines for water reduction and is typically dosed at 16 oz. per 100 lbs. of cement. *Vertastone™ One Day Wall Component B Slow Set* retarder is formulated to comply with ASTM C-494 Type B guidelines for set time reduction and is typically dosed at 16 oz. per 100 lbs. of cement.

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

Compressive Strength psi	Plain (Control) Mix:	Modified: Comp. A Wall Aid & Comp. B Slow Set, each dosed at 16 oz/cwt to control mix:
1 day Average	1300	1800
3 day Average	2850	3150
7 day Average	4450	4875
28 day Average	5125	5800

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.

**SURFACE PREPARATION:** Areas to have walls erected should have a proper footing base poured and installed with sufficient exposed rebar to bond to the newly constructed wall.





**MIXING DIRECTIONS:**

**Barrel trucks:** Concrete that is used should be manufactured of an 8 bag grout mix design (torpedo sand based) and should also be ordered at a 2 inch “low slump” consistency (thick mix) with added air entrainment. Pea gravel-based mixes should be avoided as they contain coarser aggregate that can inhibit the smooth carving of grout lines. If available, one bag of fly ash can be added to this mix in place of 1 bag of cement to help improve surface troweling and carving properties. **Once concrete arrives, add 1 gallon each of One Day Wall Component A Wall Aid and Component B Slow Set per yard of concrete to the mixer and let the drum rotate for an additional 5 minutes at high revolution until the admixtures are dispersed evenly.**

**Volumetric trucks:** Dilute each admixture 1 to 1 by volume with potable water so that they will pump more easily. Place each of the diluted admixtures into their respective high flow admixture tanks. Set each flow meter so that they dispense the diluted admixture from each of the tanks at a rate of 1 quart (32 oz.) of diluted admixture per every hundredweight (cwt) of cement.

**PLACEMENT:** Place concrete as necessary to achieve an ideal wall base to carve onto. Do not exceed more than 5 feet high in one pass as the concrete may tend to settle or sag if applied over this height. **One Day Wall Component C Easy Slick** should be **diluted 1 to 9** with potable water and transferred to a low-pressure trigger sprayer before spraying. Apply as necessary to the carved concrete surface to allow more stamping and finishing time as the wall starts to take shape.

**CURING, STAINING & SEALING:** After final set is achieved, moist cure the concrete surface to help promote proper strength gain and reduce the chance of any shrinkage cracking. After 24 hours of wet curing, the walls can be stained using **Specco Stone Transitions Natural Series Stains** which are available in 12 earth tone shades for custom colorization. Refer to Stone Transitions technical data for application instructions. The stained wall can then be sealed with **Specco Waterstopper WB** siloxane-based water repellent which will provide a natural appearance that protects the stained concrete from weathering and freeze thaw cycling attack.

**CAUTIONS:** **One Day Wall Components** will freeze 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. **One Day Wall Component A Wall Aid** 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.**

**FIRST AID: Refer to product S.D.S. (Safety Data Sheet) for complete health and safety information before using this product. FOR MEDICAL EMERGENCIES ONLY –CALL INFOTRAC AT 800-535-5053.**

**WARNINGS & SAFETY INFORMATION: Keep containers closed. Avoid ingestion, skin and eye contact and inhalation of the spray mist. Keep away from food and drink. Wash hands thoroughly after use and before eating. Do not take internally. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.**

**H.M.I.S. CODES:**

<b>Component A: Wall Aid:</b>	HEALTH = 1, FLAMMABILITY= 0, REACTIVITY = 0, PP = C (GLOVES, GOGGLES, APRON)
<b>Component B: Slow Set:</b>	HEALTH = 1, FLAMMABILITY= 0, REACTIVITY = 0, PP = C (GLOVES, GOGGLES, APRON)
<b>Component C: Easy Slick</b>	HEALTH = 1, FLAMMABILITY= 0, REACTIVITY = 0, PP = C (GLOVES, GOGGLES, APRON)

**SHIPPING NAME:** Concrete Admixtures and Surface Treatments - Water based - Not regulated

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



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**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.

**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. No other representations or statements made by Specco 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. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages.*

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