



# Specification Sheet

<b>Product Name:</b>	Pro Grade Type S Mortar Mix
<b>Manufacturer:</b>	Mohawk Materials Co., Inc. PO Box 640 Sand Springs, OK 74063 (918) 584-2707 (Phone) (918) 584-2708 (Fax) (800) 259-8721 (Toll Free)
<b>Product Description:</b>	Strongcrete Pro Grade Type S Mortar Mix is ideal for use in laying concrete block, brick, and stone, or for repairing masonry walls.
<b>Sizes:</b>	80 lb (36.2 kg)
<b>Basic Use:</b>	Recommended for interior or exterior use at or below grade level on: <ul style="list-style-type: none"><li>• Face brick or stone</li><li>• Foundation walls</li><li>• Retaining walls</li><li>• Manholes</li><li>• Sewers</li><li>• Pavements</li><li>• Walks</li><li>• Patios</li></ul>
<b>Composition Materials:</b>	Strongcrete Pro Grade Type S Mortar Mix is a uniformly blended, ready to use mix of Type S Masonry Cement (ASTM C91) and fine graded sand (ASTM C144).
<b>Advantages/Benefits:</b>	Advantages of using Strongcrete Pro Grade Type S Mortar Mix are: <ul style="list-style-type: none"><li>• Highly durable and impact resistant</li><li>• Has excellent workability</li><li>• Has a strong, durable, and long lasting mortar bond</li><li>• Uniform aggregate sizes ensure easy mixing</li><li>• Consistent quality and yield compared to jobsite mix</li><li>• Thoroughly pre-blended to require no dry mixing</li></ul>
<b>Preparation:</b>	<p>All surfaces to be bonded to Strongcrete Pro Grade Type S Mortar Mix must be free from oil, grease, or any other foreign substance which would interfere with bonding and chemical actions of the material.</p> <p>Prior to laying masonry units, dampen the exposed surfaces and clean thoroughly with water. Make sure that footings are substantial enough to hold the stress load.</p> <p>When repairing mortar, chisel out joint to a depth of <math>\frac{3}{4}</math>". Remove all loose mortar and sand, and dampen cleaned joint with water prior to application of mortar mix.</p>
<b>Mix Instructions:</b>	Using a clean mechanical mixer, place 1 $\frac{1}{2}$ gallons of clean water (per 80 lb bag) into the mixer, and start the mixer. Add the Strongcrete Pro Grade Type S Mortar Mix and continue mixing and adjust water until a uniform workable

**Mix Instructions (cont.):**

consistency is obtained. Mix for a minimum of five (5) minutes after all materials have been added to the mixer. When mixing by hand be sure to blend until uniform mixture is obtained.

Mortar colors may be added in the field. Blend them thoroughly into the mix before adding water.

**Color Uniformity:**

Use clean water from the same source for the entire job. Maintain the same mix proportions from batch to batch. Tool all joints when they reach the same degree of hardness. Tooling when mortar is soft can lighten color, and tooling when mortar is hard can darken color. The use of accelerators is not recommended. Do not use acid to clean color mortar joints. Acid attacks cement, loosening pigments and exposing sand grains.

**Placement:**

**For laying brick, block, or stone:** Start in a corner, apply a bed of Strongcrete Pro Grade Type S Mortar Mix onto the footing. Set corner unit first and tap into place. Lay successive units into position after first applying mortar to the head joint and tap into place, maintaining at least a 3/8" mortar joint. Use minimal movement when placing masonry units.

**For mortar repairs:** Use a tuck-pointing trowel or jointing tool to apply mortar to joint and compact.

**Curing:**

Clean all excess mortar off the masonry unit as soon as possible use a jointing tool to smooth and seal the mortar joint after it becomes thumbprint hard. Doing so will help make joint watertight and provide a neat appearance. In very hot and dry water conditions, lightly mist the walls to prevent premature drying of mortar. Do not allow water to run down the wall as it may cause the color to be washed out.

**Technical Information:****ASTM Specifications:**

Meets requirements of ASTM C270 specifications for Type S Mortar when used as directed.

**Compressive Strength (ASTM C109):**

Twenty-eight (28) days 1800 psi

**Limitations:**

Adhering to recommended water additions is very important. Exceeding the maximum recommended water content per bag will result in inferior physical properties.

High initial rate of absorption may also decrease strengths. Pre soaking may be helpful for some units before placing onto the wall. This will keep the water in the mortar and not allow it to be absorbed too rapidly into the unit being laid.

Mortar will not bond well to wood, asphalt, or any other foreign substances.

Do not place when temperatures are below 40 degrees F. In cold weather, use warm water and protect from freezing for 48 hours.

**Coverage:****Per 80 lb bag:**

- 44 standard bricks
- 36 queen size bricks
- 32 king size bricks
- 26 utility bricks
- 17 4" blocks
- 14 6" blocks
- 14 8" blocks
- 13 12" blocks

These unit yields are not exact and will vary depending on labor practices and conditions.

**Warning:**

Strongcrete Pro Grade Type S Mortar Mix contains cement and sand. Normal safety wear such as protective clothing, boots, rubber gloves, dust masks, and eye safety glasses should be worn while handling cement based products. Material Safety Data Sheets are available upon request.

**Limited Warranty:**

This product meets or exceeds applicable ASTM C270 standards in force at the time of packaging. Packager, having no control over the use of the material, does not guarantee finished work. Replacement of any defective product or refund of the purchase price of defective product shall be the buyer's sole remedy under this warranty.