



W440 Structural Mix

High Strength Mortar formulated with Type I Portland Cement, Sands, fibers and additives. Compressive strength resistance of 4,500 PSI @ 28 Days



Attributes

- High compressive and bond strengths
- Excellent bond to concrete and other construction material substrates
- Lowered rebound if used as shotcrete
- Excellent finishing characteristics
- Fiber Reinforced
- Just add water
- Constant and controlled Quality

Uses

WECO® W440 Structural Mix™ is a premixed mortar formulated with Type I Portland Cement, Sands, fibers and additives. Suitable for interior or exterior construction work above or below grade. WECO® W440 Structural Mix is a high compressive strength mortar (4,500 PSI @ 28 days) that complies with the ASTM C-270 Type M Standard. It is specially formulated to withstand heavy loads and can be applied by hand or projected. WECO® W440 Structural Mix only require addition of water and mix with conventional tools. Each 50 lbs. bag mixed with 1 Gallon of water yields 0.45 ft³ of mix.

- Structural repairs and constructions
- For projection on blocks, concrete and expanded polystyrene wire mesh panels (EPS)
- For total or partial below grade applications such as foundations and retaining walls
- Sidewalks and light traffic pavements

Quality Standards

ASTM: Exceeds performance requirements of ASTM C-270 Type M

LEED Program: MR 5 Credit, Regional Materials / Up to 2 Points

Packaging

Product Code	Size	Compressive Strength
WE0844007	50 Lb	4,500 PSI

Surface Preparation

Repairs to damaged concrete must be made before resurfacing can be initiated. Surface must be clean, well adhered, and free of dust, grease, wax, mold oil, paint, efflorescence and any other contaminant. To improve the adhesion of the mortar to the substrate, use WECO W-130 Rough Bond Yellow texturized bonding agent. For direct use over absorbent substrates moisten surface before applying WECO® W440 Structural Mix

Mixing

The mixture is obtained by adding water into a clean container and then gradually adding the powder. Add approximately 1 gallon of water for each 50 lb bag of WECO® W440 Structural Mix to be used. If the mortar becomes too difficult to mix, add additional water until the desired consistency is achieved. The mixing process can be performed in a cement mixer or in a bucket (working manually or with a mechanical agitator) or using a continuous mixer until homogeneous, lump-free mortar is obtained. It is also possible to use a plaster sprayer to mix and simultaneously pump the mortar, using a rotor/stator system suitable for the granulometric grading of the mixture.

Application

WECO® W440 Structural Mix must be applied with a trowel or by spraying, with subsequent passes, until the required thickness has been obtained. All cavities must be filled, the reinforcement rods must be carefully surrounded with the patching material and the mortar must be made compact, exercising adequate pressure during application. Finish off the mortar as it begins to set, using the appropriate floating equipment (rigid float, sponge spreader, smooth spreader). WECO® W440 Structural Mix must be applied after having moistened the substrate to saturation point.

Curing and Protection

Appropriate curing increases the resistance and durability of mortar. Mortar can be cured with moisture, by spraying with water in a lawn sprayer, or by covering concrete surface with a plastic tarp. Curing must continue for a period of 5 days in warm climates with temperatures of [70°F (21°C)] or greater. Protect mortar from freezing for a minimum of 48 hours. A plastic tarp or insulating blankets should be used if temperatures fall below [32 °F (0 °C)].

Caution

This product contains the following chemicals reportable under 29 CFR 1910.1200 OSHA U.S. Federal Agency. Crystalline silica, quartz-carcinogen (Pulmonary Fibrosis), Portland cement (Irritating to eyes and skin). This product contains chemicals recognized by the state of California to cause cancer, birth defects and other reproductive system injury.

Warranty

Our liability regarding this product is limited to its replacement or its refund value should it not comply with our specifications and does not include any application costs.



For more info please contact us
Customer Service: 787.739.3751
Technical Assistance: 787.487.4814

We're proud to support and be a part of the following industry organizations.

