
STAR-EPOXY MORTAR

100% SOLIDS EPOXY

Jamo's STAR-EPOXY MORTAR is a 100% solids three-component system that produces exceptional bond and compressive strengths, with improved chemical and stain resistance. Meets or exceeds ANSI A118.3.

Basic Use

STAR-EPOXY MORTAR is a setting mortar for any tile or stone. It is designed for commercial, industrial and institutional applications where extra-heavy performance levels, acid resistance, and chemical resistance are required. It can be used for setting ceramic, quarry and paver tiles and natural stone over properly prepared surfaces. Also ideal for setting marble and agglomerate tiles that are known to be dimensionally unstable due to moisture from conventional setting materials. STAR-EPOXY MORTAR is best suited for horizontal applications, however, it can be used vertically if certain precautions are taken.

Areas of Use

Suitable surfaces, when properly prepared, are plumb and true masonry concrete, ceramic tile, scarified plastic laminates, asbestos-free vinyl flooring, water-resistant wallboard, WonderBoard® Cement Backerboard, exterior grade plywood (floors only), drywall, bare steel, cured Portland cement mortar beds, and Jamo WATERPROOF WATERPROOFING MEMBRANE. Areas of particular use are industrial plants, dairies, textile and metal finishing plants, bottling plants, meat packing plants, pharmaceutical plants, breweries, bakeries, hospitals, and kitchen countertops and backsplashes. These are areas where harsh cleaning methods involve the use of natural acids, alkalis, solvents, strong detergents and other chemicals, which will cause erosion and damage to traditional cement mortars and grouts.

Limitations

The thickness of STAR-EPOXY MORTAR shall not exceed 1/8" (3.2 mm) after tiles have been properly beaten in. All surfaces on which tiles are to be set must be dry, structurally sound, and not subject to temperatures below 60° F (16° C) or above 90° F (32° C) during the first 36 hours. Keep mortar from freezing for the first 72 hours. Not recommended for continuous exposure to temperatures above 160° F (71° C).

Not recommended over frozen or unsound substrates such as particle board, press-wood, chipboard, OSB board, Luan plywood, masonite, stripwood or parquet flooring single layer plywood, fiberglass, cushion-backed floor coverings or floor coverings containing asbestos.

Preparatory Work

All suitable surfaces must be clean, dry, sound, firm, free from dust, dirt, soap film, oils, sealers, adhesive or any foreign matter that would impair adhesion. Surfaces must be structurally sound and flat with deflection not to exceed L/360 of the span under live or dead load (conforms to ANSI A108.4). Cleaning may be accomplished via mechanical sanding, scraping, or chipping. Concrete slabs should be specified to be finished with a steel trowel and fine broom finish and cured for a minimum of 28 days. Smooth concrete floors must be roughened to ensure a superior bond. Dry, porous concrete should not be pre-dampened with water before applying STAR-EPOXY MORTAR. Instead skimcoat a thin layer of STAR-EPOXY MORTAR first, then apply sufficient mortar to be notched. When installing tile over plywood flooring, it must be exterior grade plywood with deflection not to exceed L/360. Plywood must be securely fastened with non-rusting screws or nails. A 1/4" (6.4 mm) gap must be left between panels and all materials which they abut. Follow instructions provided in TCA Handbook under Ceramic Tile Installation Method F143 Epoxy Mortar over Wooden Subfloor.

Expansion joints, control joints and cold joints should never be bridged with setting material. They must be continued through the tile and filled with an appropriate elastomeric sealant.

Mixing

Empty the entire contents of Part "A" and Part "B" into clean mixing container and mix thoroughly. Gradually add Part "C" powder into pre-mixed liquids. Stir until completely blended to a smooth, trowelable consistency (about two to three minutes). If a mechanical mixer is to be used, mix only at low RPM's (300) so as not to entrap air. Do not over mix, as this will cause the epoxy to flash set.



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Application

Begin by spreading mortar with flat side of trowel to key-in substrate. With a notch trowel, immediately follow with a heavier coat of material leaving only enough mortar to provide 100% contact with back of tile. The mortar should be 1/16" (1.6 mm) for ceramic mosaic tile to 1/8" (3.2 mm) for quarry tile. Press tile firmly into fresh epoxy with slight twisting motion, align and tamp to seat level. It is advisable to occasionally remove a tile, immediately after placing, to be sure mortar has not skimmed over and sufficient transfer is being made. Do not trowel out more epoxy than can be covered in 10 minutes. If epoxy loses tack, remove and replace with fresh epoxy. Approximate tack time is 30 minutes at 70° F (21° C). It is normal for epoxy systems to heat up during initial setting. If epoxy mortar gets on the face of the tile, clean with warm water and sponge before it sets.

Coverage

Approximately 30 sq. ft. (2.79 M²) when applied with a 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) square-notch trowel.

Curing & Grouting

A minimum cure will be obtained in 18 - 24 hours depending on ambient temperatures and humidity. Allow installation to cure for a minimum of 16 hours at temperatures above 70° F (21° C) before grouting. Temperatures below 70° F (21° C) will require longer cure times.

Cleaning

STAR-EPOXY MORTAR must be cleaned from tools with water quickly after application. Do not allow mortar to cure on surface of tile. Do not attempt to work more than one unit at a time. Larger units may require a two or three man crew to spread or clean.

Warranty

Seller warrants that should this product prove to be defective material, it will replace the same or refund the purchase price of the goods. THIS WARRANTY IS IN PLACE OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. WARRANTIES OF MERCHANTABILITY AND OF FITNESS ARE HEREBY DISCLAIMED. The suitability of a product for an intended use shall be solely up to the user. Seller assumes no liability for consequential damages. Its liability shall in no event exceed the purchase price of the materials supplied by it. No person has the authority to change these items and there are no warranties except as herein stated.

Ordering Information

Item Code	Color	Size / Package
STAR-EPOXY is a factory proportioned kit consisting of:		
Small Unit		
119131	White	Part "A" 58 fl. oz. (1.71 L) Part "B" 35 fl. oz. (1.03 L) Part "C" one 25 pound (11.34 kg) bag of powder.
Commercial Unit		
119138	White	Part "A" 5 gallons (18.93 L) Part "B" 3 gallons (11.35 L) Part "C" eleven 25 pound (11.34 kg) bags of powder.
Texture		
Part "A" - Clear Liquid Resin Part "B" - Amber Liquid Curing Agent Part "C" - Powder Colorant		

Technical Data

	Typical Value
Bucket Life	2 hours
Water Cleanable	2 hours
Initial Set @ 75° F (24° C)	6 hours
Final Set @ 75° F (24° C)	24 hours
Sag (Vertical)	None
Shear Bond strength	>1800 psi (126.5 kg/cm ²)
Compressive Strength	6500 psi (457 kg/cm ²)

Caution

May cause eye, skin or lung injury. Contains free silica. Prolonged exposure to dust may cause delayed lung disease (silicosis). May cause cancer based on animal data. Eliminate exposure to dust. Use NIOSH approved dust mask for silica dust. May cause skin injury. Wear rubber gloves. Provide adequate ventilation. Keep containers closed tight when not in use. Handle carefully to keep dust to a minimum. In case of spillage, sweep-up and discard. Avoid contact with skin where possible and wash exposed skin areas promptly with water. CORROSIVE. KEEP OUT OF REACH OF CHILDREN.



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