

PHYSICAL PROPERTIES

Bond strength	Brick fails
Compressive strength - C579 7-days	12998 psi
Density - C905 (7 day)	124.7 lb./cu. ft.
Flexural strength - C580 (7 day)	4389 psi
Maximum service temperature	212°F
Initial Set (ANSI A118.3)	> 2 hours
% Shrinkage - C531 (7 day)	3.56 x 10 ⁻⁵
Tensile strength - C307 (7 day)	2567 psi
Water absorption - C413 (7 day)	0.15%

OKS60 Epoxy Grout is a three-component, 100% epoxy bonding material for chemical resistant masonry units and quarry tile. OKS60 Epoxy Grout and chemical-resistant masonry units used with a suitable membrane form a complete system to protect concrete and steel substrates from attack by corrosive chemicals and physical abuse.

OKS60 Epoxy Grout is used in the construction of floors, sumps, trenches, and food & beverage plants; dairies; laboratories; textile, steel, and pulp & paper mills. OKS60 Epoxy Grout has excellent resistance to a wide range of acids, alkalis and most solvents up to 212°F. OKS60 Epoxy Grout is recommended for exposure to hypochlorite or oxidizing agents such as nitric, chromic acid or sulfuric acid greater than 90%. Refer to Chemical Resistance Chart for specific service conditions.

CHARACTERISTICS

- Low odor.
- Resists a wide range of acids, alkalis and most solvents.
- 100% epoxy.
- Withstands temperatures to 212°F.
- Inhibits the growth of bacteria.

PREPARATION

Temperature of Working Area

For optimum application conditions, maintain a temperature of 60° - 80°F (16°-26°C) air, substrate, Powder, Liquid, and masonry units during mixing, application, and cure. Maintain materials and substrate between 60°F - 80°F for 48 hours prior to beginning work.

At temperatures below 65°F, the viscosity increases and application becomes more difficult. OKS60 Epoxy Grout can be applied at temperatures as low as 50°F. Consult to technical service for specific recommendations for environments colder than 50°F.

Above 80°F, working time of the material decreases. In higher temperatures it is recommended that the Liquid be cooled by placing the pail in a large container filled with water and ice or storing in a cool area.

Surface Preparation

All surfaces in contact with OKS60 Epoxy Grout should be clean, dry, and free of dust, dirt, grease, oil, and other contaminants. Surface prep should be in accordance with American Concrete Institute (ACI) requirements.

APPLICATION

Mixing

Empty correct proportion of Liquid into a clean mixing vessel. Gradually add measured amount of Powder while mixing continuously with a trowel or hoe until mortar is uniformly blended to a workable consistency. After mixing do not allow mortar to remain in the mixing vessel, spread mortar in a thin layer in a mortar pan to ensure maximum working time of 30 minutes at 73°F(23°C). Recommended mix ratio, parts by weight, is as follows:

Parts by weight		
Liquid A	1.0	Powder 6.0
Liquid B	0.9	

Material which has begun to set cannot be retempered and must be discarded. Never add Liquid or other materials to mixed material or any component part.

Installation

Bricklayers Method - Trowel an average 1/8-inch-thick bed joint of OKS60 Epoxy Grout directly on top of the membrane or preceding course of brickwork. Apply the grout by buttering one side and one end of each brick with a pointing trowel. Set the masonry units in place and position by tapping to form an average 1/8-inch-wide vertical joint.

Tilesetters Method - Place a quantity of the grout onto the surface of previously set masonry units or quarry tile. Spread and work grout across surface of the tile at a 45° angle to the joints using an American Olean K&R trowel. When filling the joints in this manner, take special care to work the grout to full depth of the joint.

FINISHING

Bricklayers Method - Strike extruded mortar off face of masonry unit with a trowel. For floors where appearance is a factor.

Tilesetters Method - After filling the joints, remove the excess mortar from the surface of the masonry units or quarry tile using the trowel as a squeegee.

CLEAN-UP

All equipment should be cleaned with acetone or MEK before OKS60 Epoxy Grout cures. If removal is required after cure, consult technical service for recommendations.

COVERAGE

Estimating Table - per sq.m*
Common floor and brick quarry tile sizes.

8"x4"x1/2"	200x100x12 mm	15
8"x8"x1/2"	200x200x12 mm	17
12"x6"x1/2"	300x150x12 mm	19
9 ⁵ / ₈ "x4 ⁵ / ₁₆ "x9 ¹ / ₁₆ "	245x110x14 mm	10
9 ⁵ / ₈ "x4 ⁵ / ₁₆ "x11 ¹ / ₁₆ "	245x110x18 mm	9
8"x4"x1 ³ / ₁₆ "	200x100x30 mm	5
8"x4"x2 ³ / ₈ "	200x100x60 mm	3

¹/₈" setting bed 4.0 m².

CURING

OKS60 Epoxy Grout is self-hardening due to a chemical reaction which occurs when the Powder, hardener and Resin are mixed. An initial set occurs in 4 to 4 1/2 hours at 70°F - the material is ready for service after a 24-hour cure at 70°F. Brickwork should not be subject to water, steam, or chemical environment before the grout is completely cured.

EXPANSION/CONTROL JOINTS

Joints are to be provided on 20-foot centerlines, around all fixed objects, peripheries of rooms and all points of movement in the base slab. Consult technical service for product recommendation.

PACKAGING

OKS60 Epoxy Grout
35 lb. 4 oz. (15.8 kg.) Unit
contains.

Two - 1/4-gal. can of Resin 2 lb. 5 oz. ea. (2.0 kg.); Two - 1/4-gal. can of Hardener 2 lb. ea. (1.8 kg.); One - bag of Powder 26 lb. 6 oz. (12.0 kg.)

SHELF LIFE

OKS60 Epoxy Grout have a shelf life of one (1) year when stored in unopened, tightly sealed containers in a dry location at 70°F.

Avoid freezing. If there is a doubt as to the quality of the materials, consult a technical service.

CAUTION

Consult Material Safety Data Sheets and container label Caution Statements for hazards in handling these materials.

WARRANTY

We warrant that our goods will conform to the description contained in the order, and that we have good title to all goods sold. WE GIVE NO WARRANTY, WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE OR OTHERWISE, EXPRESS, OR IMPLIED, OTHER THAN AS EXPRESSLY SET FORTH HEREIN. We are glad to offer suggestions or to refer you to customers using OKS60 Epoxy Grout cements and compounds for a similar application. Users shall determine the suitability of the product for intended application before using, and users assume all risk and liability whatsoever in connection therewith regardless of any suggestions as to application or construction. In no event shall we be liable hereunder or otherwise for incidental or consequential damages. Our liability and your exclusive remedy hereunder or otherwise, in law or in equity, shall be expressly limited to our replacement of non-conforming goods at our factory or, at our sole option, to repayment of the purchase price of non-conforming goods.

The above quantity requirements are based upon physical dimensions of chemical-resistant masonry. Units and actual weight of mortar as determined by ASTM C-905. Actual usage rate will vary dependent upon scope of installation, experience of workmen, field conditions and other contingencies. Personnel using the above chart should, therefore, add an appropriate wastage factor*.