RapidSetting Mortar System

CCT

Engineered with
Controlled Cure Technology™

PRICE

- **Premium formula for time-critical installations**
- **Two-part system — Mix with RapidSetting Additive**
- **Outstanding flexibility and bond strength**
- **Isolates cracks up to 1/16" (1.6 mm)**
- **The CCT Advantage:**
  - **Grout in just 2 hours – Traffic in 6**
  - **Low shrinkage**
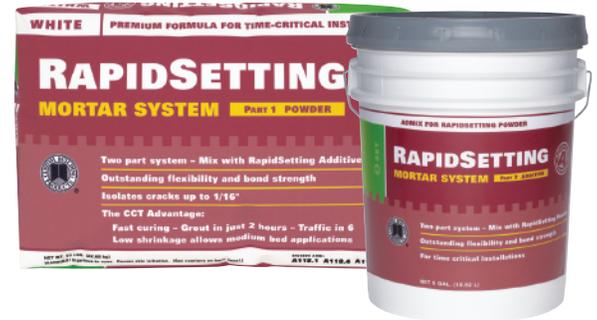
PRODUCT DESCRIPTION

RapidSetting Mortar System is a two-part system of a thin-set mortar and latex additive, that offers outstanding flexibility and bond strength. Specially developed for time-critical commercial installations allowing grouting in as little as 2 hours and traffic in 6 hours. Excellent for tiling over difficult-to-bond surfaces such as plywood, ceramic tile and laminates and when installing hard-to-bond, non-porous tile like porcelain and glass. Protects against cracking from minor surface movement. Isolates cracks up to 1/16" (1.6 mm). Formulated with Controlled Cure Technology,™ RapidSetting Mortar System cures ultra-fast and develops high early and final strength for quick installations. Low shrinkage allows a medium bed capability for large format tile installations. Exceeds ANSI A118.4 and A118.11. Protected by MoldGard® Technology to resist mold and mildew growth.

USES — TILE TYPES

- Vitreous, semi-vitreous or absorptive tile: ceramic, mosaic, quarry, cement
- Impervious porcelain and glass tile
- Brick and mini-brick
- Precast terrazzo
- Natural stone

AREAS OF USE

- Interior or exterior floors, countertops, walls
- Concrete, mortar beds, masonry, Portland cement plaster
- Backerboards such as WonderBoard® and EasyBoard®
- Exterior grade plywood (interior residential and light commercial dry areas)
- Gypsum wall board (dry areas)
- Water-resistant wallboard
- Existing ceramic tile
- Sheet vinyl flooring, VCT
- Plastic laminates
- Cutback adhesive

LIMITATIONS

- Do not bond directly to hardwood, Luan plywood, particle board, parquet, cushion or sponge-back vinyl flooring, metal, fiberglass, plastic and OSB panels.
- When setting moisture sensitive natural stone or agglomerates (check with manufacturer) use 100% Solids Epoxy Mortar.
- Do not use to install resin-backed stone.
- When setting glass tile larger than 6" x 6" (15 x 15 cm) contact Technical Services for recommendations.
- When setting dimensional stone larger than 12" x 12" (30 x 30 cm), contact Technical Services for recommendations regarding subfloor deflection requirements.
- RapidSetting Mortar System is a two-part system, consisting of a thin-set mortar and flexible latex additive, that must be mixed together to achieve desirable results.

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SURFACE PREPARATION

General Surface Preparation:
Surfaces must be structurally sound, clean, dry and free from grease, oil, dirt, curing compounds, sealers, adhesives or any other contaminant that would prevent a good bond. Glossy or painted surfaces must be sanded, stripped and cleaned of waxes, dirt or any contaminants. Ambient temperature, surfaces and materials should be maintained at a temperature above 50° F (10° C) or below 100° F (38° C) for 72 hours.

Cementitious Surfaces:
Concrete or plaster must be fully cured and accept water penetration. Test by sprinkling water on various areas of the substrate. If water penetrates, then a good bond can be achieved. If water beads, surface contaminants are present and loss of adhesion may occur. The contaminants should be removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a broomed or brushed finish to enhance the bond. Smooth concrete slabs must be roughened to ensure a good bond.

Plywood Substrates:
Plywood floors, including those under resilient flooring, must be built to industry standards. Deflection not to exceed L/360. For questions about proper subfloor installation, call Technical Services.

Backerboards and Underlayments:
Tile backerboards such as WonderBoard® and EasyBoard® are a superior alternative to using a second layer of plywood as a final substrate for tile installation. EasyMat™ is an underlayment that can be used in the same regard. Each provide unique benefits to tile installation but all can be installed over plywood to ensure that maximum bond strengths and performance are achieved. Refer to respective data sheet for installation information.

Existing Ceramic Tile, Resilient Flooring or Plastic Laminates:
Plywood flooring must be structurally sound and meet all ANSI and deflection requirements. Resilient flooring or plastic laminates must be well bonded, clean and free of all contaminates. Roughen the surface by sanding or scarifying, rinse and allow to dry. Do not sand flooring containing asbestos. For existing well-bonded ceramic tile, mechanically abrade with carborundum stone. Rinse and allow to dry. When sanding we recommend the use of an approved respirator.

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

Cutback Adhesive over Concrete:
Adhesive layers must be removed as they reduce mortar bond strength to cement surfaces. Use extreme caution as adhesives may contain asbestos fibers. Do not sand or grind adhesive residue, as harmful dust may result. Never use adhesive removers or solvents, as they soften the adhesive and may cause it to penetrate into the concrete. Adhesive residue must be wet-scraped to the finished surface of the concrete, leaving only the transparent staining from the glue. Do a test bond area first, to determine desirable results. Refer to the RFCI Pamphlet, "Recommended Work Practices for Removal of Resilient Floor Coverings" for further information.

MIXING

Thoroughly mix 2 gallons (7.57 L) of RapidSetting Mortar System Part 2 Additive and a 50 lb. (22.68 kg) bag of Part 1 Powder to a smooth, paste-like consistency. Mix by hand or use a low speed (150 - 200 RPM) 1/2" (13 mm) drill. Use immediately after mixing; do not allow to slake or stand. Stir occasionally to keep fluffy, but do not add more water. When properly mixed, troweled ridges will stand with no slump.

APPLICATION

INSTALLATION TO CONFORM TO ANSI A108.5. Use proper sized notched trowel to ensure 100% coverage under tiles. When using as a medium bed mortar to install irregularly backed natural stone or pavers or large tile, use a 3/4" x 9/16" x 3/8" (19 x 14 x 9.5 mm) U-notch trowel. Using flat side of trowel, apply skim coat of mortar to the surface. Apply additional mortar with notched side of trowel held at a 45° angle to the surface, combing in one direction. Press tile firmly into place in a perpendicular motion across ridges, moving back and forth. Perpendicular pressing flattens ridges and closes valleys allowing maximum coverage. With some tile, back buttering is advisable. Adjust tile promptly and beat in with block and rubber mallet. Periodically pull up a tile and check the back to ensure complete coverage with the adhesive. Do not spread more material than can be tiled in 10 minutes or while material has wet tack (sticky to the touch). If material has skinned over (not sticky), recomb with notched trowel. If too dry, remove and replace with fresh material. Material in bucket will remain workable approximately 30 minutes.

CURING

Allow to cure for 2 - 4 hours before grouting. Polyblend® or Prism® SureColor® Grout is recommended. Allow installation to cure an additional 3 - 4 hours before exposing to heavy traffic, depending upon temperature and humidity.

COVERAGE

SQUARE FOOT COVERAGE PER 50 LB. BAG (SQUARE METER PER 22.68 KG) TROWEL SIZE	COVERAGE
1/4" x 1/4" x 1/4" Square-Notch (6 x 6 x 6 mm)	90 - 100 sq. ft. (8.4 - 9.3 m²)
1/4" x 3/8" x 1/4" Square-Notch (6 x 9 x 6 mm)	63 - 70 sq. ft. (5.6 - 6.5 m²)
1/2" x 1/2" x 1/2" Square-Notch (13 x 13 x 13 mm)	45 - 50 sq. ft. (4.2 - 4.6 m²)
3⁄4" x 9⁄16" x 3⁄8" U-Notch (19 x 14 x 9 mm)	36 - 40 sq. ft. (3.3 - 3.7 m²)

CLEAN-UP

Clean with water before material dries.

STORAGE

Store in a cool dry area.

SAFETY

Contains Portland cement. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician. This product contains free silica. Do not breathe dust; wear NIOSH approved respirator.

ORDERING INFORMATION

ITEM CODE	SIZE	COLOR	PACKAGE
RSMG50	RapidSetting Part 1 Powder 50 lb. (22.68 kg)	Gray	Bag
RSMW50	RapidSetting Part 1 Powder 50 lb. (22.68 kg)	White	Bag
RSA5	RapidSetting Part 2 Additive 5 gal. (18.93 L)		Pail

TECHNICAL DATA

Exceeds ANSI A118.4 and A118.11 specifications.

	RAPIDSETTING MORTAR SYSTEM
Pot Life	30 minutes
Open Time	25 minutes
Adjustment Time	20 minutes
Shear Bond @ 28 Days:	
Bisque Tile	700 psi (49.2 kg/cm^2)
Porcelain Tile	600 psi (42.2 kg/cm^2)
Quarry Tile to Plywood	350 psi (24.6 kg/cm^2)
Compressive Strength @ 28 Days	4500 psi (316.5 kg/cm^2)

LIMITED WARRANTY

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