



# R-Amtech Ceramic Tile Mastic

## PRODUCT DESCRIPTION

R-Amtech Mastic is a high performance composite tile adhesive for both interior and exterior installation of most types of ceramic and stone tiles on many types of substrates. The mastic is multi-purpose, white, and ready to use with short curing time.

## KEY BENEFITS AND FEATURES

- Usable for almost any substrate with almost any material in almost any area of use including underwater
- Non-toxic, odorless, and no VOCs
- Temperature resistance up to 1850° F (1000° C) with no time limit
- Waterproof after curing of waterproof grout
- High bond strength exceeding ANSI requirements
- Short curing times of 3 to 18 hours before applying grout
- High elasticity excellent for large surface areas such as wallboard
- Non-flammable

## SUITABLE SUBSTRATES

- Concrete, brick masonry, and terrazzo
- Cement mortar bed and concrete plaster
- Hardwood, plywood, and parquet flooring
- Particle board and OSB
- Gypsum and water-resistant wallboard
- Cement backer board
- Natural and cultured marble
- Fiberglass
- Existing tile
- Soft metals
- Painted surfaces
- Battleship and linen linoleum

## SUITABLE MATERIALS

- Ceramic
- Mosaic
- Glass
- Natural stone
- Slate
- Saltillo pavers
- Tiles with ridge, button, or lug backs
- Sizes up to 12" by 12" for walls
- Any size tile for floors

## FOUR PRODUCT TYPES

There are four types of R-Amtech Mastic that have been formulated with specific performance characteristics.

TYPE MP is applicable for use with any substrate and any material *excluding* polymeric linoleum and tile in areas with *prolonged* water exposure or water submersion such as steam rooms, shower floors, and pools.

TYPE MPL is applicable for use with any substrate and any material *including* polymeric linoleum and tile in areas with *prolonged* water exposure or water submersion such as steam rooms, shower floors, and pools.

TYPE MS is applicable for use with any substrate and any material *excluding* polymeric linoleum and tile in areas with *intermittent* water exposure such as shower walls, countertops, and tub surrounds.

TYPE MSL is applicable for use with any substrate and any material *including* polymeric linoleum and tile where *high bond strength* is required such as high traffic areas or constant load on floor. This type is not for use in areas with prolonged water exposure or water submersion such as steam rooms, shower floors, and pools.

## PRODUCT COMPOSITION

R-Amtech Mastic has patent-protected formulas. The formulas vary by product type, but include the key components of silicate aqueous solution (water glass), anhydrous lithium hydroxide, di- or trihydric alcohol, wollastonite, talc, and inorganic pigment.

## PATENT PENDING

R-Amtech Mastic is protected by US Patent Application 2003/0192458 A1 published October 16, 2003 entitled Adhesive Composition. The primary claim of the patent is an adhesive composition of the components identified above.



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## R-AMTECH MASTIC COMPETITIVE ADVANTAGES

CHARACTERISTIC	R-AMTECH MASTIC	OTHER MASTICS
Applications	R-Amtech Mastic can be used with almost any substrate with almost any material in almost any area of use.	Other mastics have long lists of unacceptable materials, substrates, and areas of use.
Toxicity	R-Amtech Mastic contains no VOCs and are non-toxic and odorless.	Other mastics are organic latex, acryl, or epoxy-based.
Temperature Resistance	R-Amtech Mastic has temperature resistance up to 1850° F (1000° C) without any time limit.	Other mastics cannot exceed 662° F except for a short period of time up to 755° F.
Water Resistance	R-Amtech Mastic is waterproof when fully cured with waterproof grout and can be used in underwater applications.	Other latex- and acryl- based mastics are not waterproof. Epoxy-based mastics are waterproof, but toxic.
Curing Time	R-Amtech Mastic has short curing times of 3 to 18 hours before waterproof grout can be applied in either interior or exterior locations.	Other mastics require 24 to 48 hours curing time before applying grout in interior locations only.

### APPLICATION PROCEDURES

- Surfaces must be clean, dry, and free from grease, oil, adhesives, and other contaminants.
- Concrete and plaster substrates must be fully cured.
- Mix thoroughly before applying with the flat side of a trowel.
- Apply thin, even layer of mastic 1/50" to 1/26" (0.5 to 1.0 mm) thick. Maximum bond strength is reached with thin coat of mastic (1/50" or 0.5 mm).
- Do not apply more mastic than can be worked in 30 minutes. If mastic starts to skin over, rework with trowel before setting tile or other material.
- Mastic container may be kept open for 60 minutes. Keep container closed when not in use.
- Uncured mastic is easily cleaned with water and household soap.

### COVERAGE

- Coverage is approximately 80 to 90 square feet per gallon at 1/50" (0.5 mm) nominal thickness.

### CURING

- Interior use: Cure for a minimum of three hours at 70° F (21°C) before applying grout
- Interior floors: Cure for a minimum of 12 hours at 70° F (21°C) before applying grout. Cure for 24 hours before walking directly on floor unless covered with walking boards or plywood.
- Exterior use: Cure for a minimum of six hours at 70° F (21°C) before applying waterproof grout.
- Exterior floors: Cure for a minimum of 18 hours at 70° F (21°C) before applying waterproof grout. Cure for 24 hours before walking directly on floor unless covered with walking boards or plywood.

### SHELF LIFE AND STORAGE

- Shelf life of one year from date of manufacture
- Best stored at moderate temperatures
- Freeze/thaw stable

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