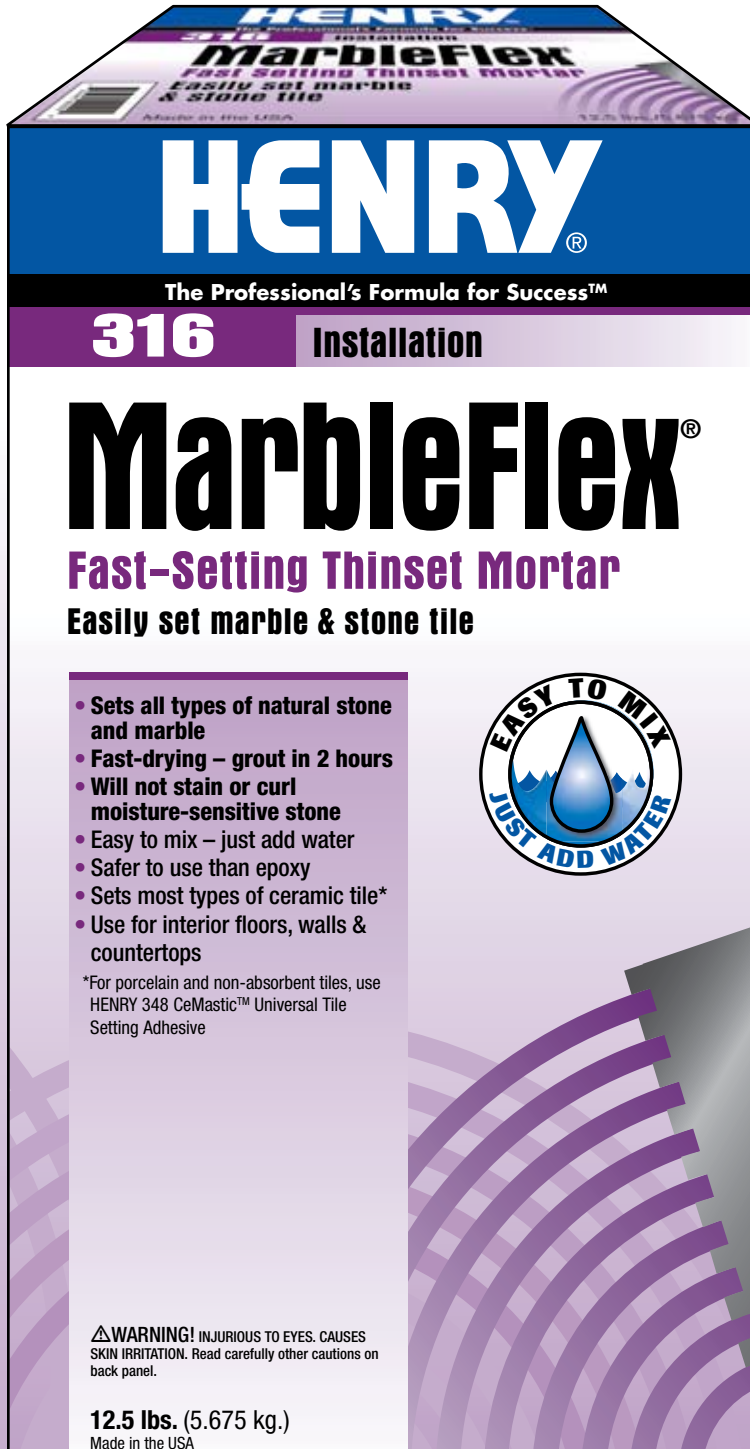


# HENRY®



**316**  
**MarbleFlex®**

**Fast Setting  
Thinset Mortar**

**Easily Set Marble  
& Stone**

- Sets any type of natural stone & marble
- Will not stain or curl moisture-sensitive stone
- Fast drying – grout in 2 hours
- Safer to use than epoxy
- Sets most types of ceramic tile
- Use for interior floors & walls
- Easy to mix – just add water

**THE PROFESSIONAL'S FORMULA FOR SUCCESS™**

# HENRY® 316 MarbleFlex®

**HENRY 316 MarbleFlex® Fast Setting Thinset Mortar is the easiest and simplest way to install moisture sensitive marble and stone tile. Due to its unique formulation, HENRY 316 MarbleFlex® will not stain, curl, or warp moisture sensitive stone and is non-toxic and safer to use the epoxy setting materials.**

HENRY 316 MarbleFlex® Fast-Setting Thinset Mortar is a self-drying, white Portland cement-based thin-set mortar for setting of floor and wall tiles for indoor applications. Due to its exclusive self-drying Portland cement formulation, HENRY 316 MarbleFlex® Fast-Setting Thinset Mortar will not contribute moisture to marble or stone tile making it particularly suited for use with moisture-sensitive tile and stone. Additionally, due to HENRY 316 MarbleFlex® Fast-Setting Thinset Mortar's fast setting properties, tile and stone may be grouted after only 2 hours of drying time (70° F).

#### USE FOR:

- Moisture sensitive marble, granite, and stone tile.
  - Non-moisture sensitive marble, granite, and stone tile.
  - Mosaics, pavers, and regular ceramic tile.\*
- \* For porcelain and non-absorbent tiles use HENRY 348 CeMastic™ Universal Tile Setting Adhesive.

**BONDS TO:** Concrete, Concrete Backer Units, Masonry, Cement Terrazzo, Drywall and other common building surfaces on interior floors, walls and countertops. Wood, Laminate, and Ceramic Surfaces must be prepared with HENRY Waterproofing Membrane or HENRY Floor Primer prior to installation.

#### PREPARATION:

##### SURFACE PREPARATION

All existing surfaces that are to receive tile must be clean, sound, solid, and free of weak or loose areas, dust, dirt, oil, or any contaminant that may act as a bond breaker. The plane of wall surfaces must be plumb and true. Floor surfaces must have minimal variation in the plane or the slope. Should pre-leveling on an interior floor be required, use HENRY 547 Universal Underlayment. Tiling with HENRY 316 MarbleFlex® Fast-Setting Thinset Mortar may proceed in 16 hours. Expansion joints must be provided over existing moving joints and where substrate materials change composition or direction.

##### PRIMING:

Standard absorbent substrates such as concrete require no priming prior to installing the tile. For applications over non-absorbent substrates such as metal, glass, solidly bonded non-porous coatings, and existing tiles, prime with HENRY Floor Primer and allow to dry thoroughly (min. 3 hours, max. 24 hours) prior to beginning the installation.

##### MIXING:

The standard mixing ratio is 1.5 qt. of water per 12.5 lb. box. Put clean water in the mixing container first, then add the HENRY 316 MarbleFlex® Fast-Setting Thinset Mortar powder. For mixing smaller amounts, use a mixing ratio of 2 3/4 parts powder to one part water by volume. For best results, mix with the mixing paddle and 1/2" heavy-duty drill. To mix by hand, use a margin trowel and mix vigorously for 2-3 minutes. Just prior to application on the substrate, the mixture should be stirred again to ensure a creamy, smooth and lump free consistency. **NO SLAKE TIME IS REQUIRED!**

**NOTE:** The pot life of HENRY 316 MarbleFlex® Fast-Setting Thinset Mortar is 30 minutes at 70° F. If surface skinning occurs within this time, stir material again before using. **DO NOT ADD MORE WATER!**

#### INSTALLATION:

After mixing, apply a thin scratch coat of the mortar to the substrate with the flat side of a trowel to obtain a solid mechanical bond. Apply to an area no greater than that which can be covered with tile while the mortar remains plastic (approx. minutes 10 working time, depending on the substrate and job site conditions). Comb the mortar with a notched trowel to sufficient depth to ensure that the tiles are covered uniformly over their entire surface. The type and size of the tiles will dictate the size of the notched trowel to be used. The position of the tiles may be corrected for approximately 10 minutes after their installation. Rough or uneven substrates may first be treated with a full scratch coat of HENRY 316 MarbleFlex®. Installation of tiles may begin after the scratch coat has hardened.

#### COVERAGE:

- 19 to 22 square feet per 12.5 lb box using a 1/4"x1/4"x1/4" square notched trowel.
- 16 to 19 square feet per 12.5 lb box using a 1/4"x3/8"x1/4" square notched trowel.

#### BACK-BUTTERING:

When setting tiles, it may be necessary to trowel a layer of mortar on the back of each tile prior to placing on the combed mortar bed in order to achieve the required mortar-to-tile contact specified. Press tile firmly into the freshly combed mortar to ensure maximum mortar contact with tile. Tile must not be applied to skinned-over mortar.

#### GROUTING:

Tiles may be grouted after 2 hours. HENRY recommends the use of HENRY MarbleFlex® Grout to prevent staining of marble and natural stone.

#### CLEAN UP:

Use clean, damp cloth for clean up. If material dries, use mechanical means to remove.

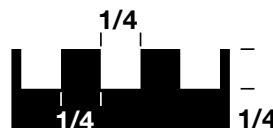
#### MIXING RATIO:

- 1.5 qt. water per 12.5 lb. box.
- For smaller batches, mix 2.75 parts powder with 1 part water (by volume).
- Not freeze/thaw stable. Do not expose to freezing.
- Shelf life is one year if unopened. Store in a cool dry area. Do not expose box to sun.

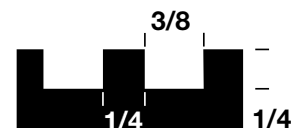
#### WARRANTY:

For complete warranty details, contact your dealer or our Customer Service Center at 800-232-4832. We warrant that HENRY 316 MarbleFlex® Fast-Setting Thinset Mortar will not break down or lose its cohesive strength due to a manufacturing or formulation defect for one year from the date of purchase, subject to certain exclusions and limitations set forth in the warranty, if used for that stated purpose and applied in accordance to these instructions.

#### HENRY® TROWEL



SQ-NOTCH 1/4"D x 1/4"W x 1/4"A  
19-22 sq. ft./12.5 lb. box



SQ-NOTCH 1/4"D x 3/8"W x 1/4"A  
16-19 sq. ft./12.5 lb. box

# HENRY®

The W.W. Henry Company  
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(724) 203-8000

Customer Service and Technical Information  
1-800-232-4832  
www.wwhenry.com

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#### HENRY Commitment

HENRY is committed to helping you get the best results in professionally installed floors. 70 years of experience combined with our relationships with the leading resilient, wood and carpet manufacturers ensure that you receive the products and the support you need to complete the job successfully and profitably.

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