

Technical Bulletin

Oxide & Mortar Instructions

ISSUED: JULY 15, 2026

For Hips, Ridges, and Rakes (Weatherblocking & Finish Work)

Applies to pre-blended mortars such as Quikrete and Tile-Tite

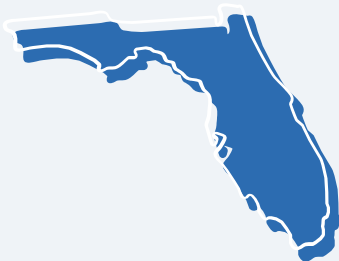


Top 5 Rules to Get It Right

- 1. Use the full color bucket per batch** – never split or guess
- 2. Measure your water** – do NOT add water freely
- 3. Mix consistently every time** – same process = same color
- 4. Do not overwater** – excess water = lighter color + weaker mortar
- 5. Finish clean and uniform** – consistency matters visually and functionally

What You'll Need

- Pre-blended roof tile mortar (bagged)
- Manufacturer-provided oxide color bucket (matched to tile)
- Clean water (measured)
- Mortar mixer (preferred) or pail + drill paddle
- Clean mixing tools (no leftover material)



FLORIDA-SPECIFIC TIPS

- In hot conditions:
 - Use cool water if possible
 - Mix smaller batches to maintain workability
- Do not add water later to “loosen” the mix.
This will change color and performance

connect with us!



eagleroofting.com



Step-by-Step Mixing Instructions

1 Start With Measured Water

- Add $\frac{3}{4}$ of the required water to the mixer first
- Typical range: **4–6 quarts per 80 lb bag** (follow bag instructions)
- Adjust slightly for Florida heat, but **stay consistent batch-to-batch**

2 Add Full Mortar Bag

- Add the entire bag of mortar into the mixer
- Begin mixing immediately

3 Add FULL Color Bucket

- Add the entire pre-measured oxide bucket
- Never split buckets or estimate amounts
- This is critical for color consistency

4 Mix Thoroughly (Dry Blend Phase)

- Mix for 2–3 minutes before adding more water
- Ensure color is fully dispersed (no streaks)

5 Adjust Water Slowly

- Add remaining water gradually until desired consistency is reached
- Final mix should be:
 - Smooth and workable
 - Holds shape (not runny)
 - Not soupy or glossy

6 Final Mix

- Mix for an additional 3–5 minutes
- Total mixing time: 5–8 minutes



WHAT CAUSES COLOR PROBLEMS

Too much water =

Lighter, washed-out color

Inconsistent water =

Shade variation between areas

Poor mixing =

Streaky or blotchy appearance

Partial color buckets =

Mismatched color

connect with us!



eagleroofing.com





Color Control (MOST IMPORTANT)

To Achieve Consistent Color:

- Use same water amount every batch
- Use full color bucket every batch
- Mix for same duration every time
- Keep tools and mixer clean between batches

Proper Consistency (Field Check)



Correct Mix:

- Holds shape on trowel
- Slightly damp, not shiny
- Sticks to tile without slumping

Too Wet:

- Slides or sags
- Appears glossy
- Will dry lighter than intended

Too Dry:

- Crumbly
- Poor bond to tile
- Difficult to finish smoothly



Application Notes (Hips, Ridges, Rakes):

- Fully embed trim tiles to close all gaps and transitions
- Tool/smooth mortar for a clean, uniform finish
- Maintain consistent joint size and appearance
- Avoid overworking surface (can affect color)

connect with us!



eagleroofting.com



Important Notes on Site-Mixed Mortar

While this guide is intended for **pre-blended mortars** (e.g., Quikrete, Tile-Tite):

- Site-mixed mortar (sand + cement) may:
 - Produce inconsistent color
 - Vary in strength and workability
- Achieving consistent results requires:
 - Controlled sand grading
 - Precise cement ratios
 - Careful batching



Use of **site-mixed mortar** may result in color variation and is **not recommended** where appearance consistency is required.

Responsibility & Quality

- Final color and appearance are **directly affected by mixing practices**
- It is the installer's responsibility to:
 - Follow consistent mixing procedures
 - Maintain uniform appearance across the roof
- **Variations in color are not a material defect.** They are typically caused by:
 - Excess water
 - Inconsistent batching
 - Improper mixing
- Mortar performance and appearance are field-controlled variables
- Pre-measured oxide buckets are provided to support consistency, but:
 - Proper use is required for intended results

For more information, contact your local **Eagle Account Representative** by visiting eagleroofing.com.

connect with us!



eagleroofing.com

