

THIN-FILL 55

Thin Section Reprofiling Mortar

Description:

THIN-FILL 55 is a latex-modified reprofiling mortar for vertical and non-traffic bearing horizontal masonry and concrete surfaces. **THIN-FILL 55** allows application of thin-section patches of 1/32 to 1/8 inch depth while maintaining excellent adhesion, strength, breathability, and resistance to cracking.

Typical patching materials normally require cutting a minimum ¼ to ½ inch depth, but **THIN-FILL 55** is unique because it does not require cutting, only clean and solid masonry.

THIN-FILL 55 provides smooth, textured, or grooved finishes, which can also be further polished to repair glazed terra cotta or polished stone profiles. Optional subsequent application of **AQUATHANE UA210**, **ELASTOWALL 351**, **SILQUATHANE 222**, **AQRYL-X 200**, and/or **AQUASPEX 220** glaze replacement coating allows close duplication of existing terra cotta and stone finishes.

FEATURES:

- Ultra Fine texture for smooth finishing and thin-section repair
- Can be further polished with 400 grit sandpaper to achieve near-glaze texture
- Tough, durable, breathable, low modulus
- Available in Standard Grey, White, and Custom Colors
- Non-Silica fine aggregates used to avoid respirable toxic silica handling
- Does not require deep cutting, which saves time, cost, and loss of historic fabric

APPLICATION:

1. **Surface Preparation:** Surfaces must be clean, rough, damp or dry, and free of form oil, curing compounds, grease, oil, dirt, efflorescence, coatings, or other materials which may hinder adhesion. Damaged glaze or stone should be sounded and then chipped back to solid masonry. Dampen surfaces with clean water or prime with a slightly thinned brush coat of **THIN-FILL 55** before patching, but do not apply over standing or seeping water. Optionally, surfaces may be primed with **AQUEPOXY 250-S30** in extreme wet or high humidity climates.
2. **Mixing:** While mixing, add latex **THIN-FILL 55**, and mix to a stiff pasty consistency. Mix approximately 1 gallon of **55A** liquid to 2-2.5 parts **55B** powder. Mix for 4 minutes using low speed (250 rpm) drill mixer.



*Where's the Repair? Glazed terra cotta spall, upper left corner, filled and sanded smooth using **THIN-FILL 55**, then glazing and speckling with **AQUATHANE UA210** and **AQUASPEX 220** coatings, matched to original glaze colors. Project is a Historic school restoration in Charleston, SC.*

TECHNICAL PROPERTIES:		
Property	Standard	Result
Weather Resistance	ASTM G154	No change, 500 hours
Bond Strength	ASTM D4541	150 psi min.
Vapor Permeability	ASTM E96	2.06 perm/in
Drying Shrinkage	ASTM C157	<0.08%
Modulus of Elasticity	ASTM C580	<1.5 x 10 ⁶

- Application:** Mix only what will be applied within 20-40 minutes. Mixes should not be retempered by repeated latex or water addition. Apply using standard plastering tools and work into surface profile to assure complete filling and bond. For patches over ¼ inch depth use *Custom SYSTEM 45*.

Depending on weather and working conditions, material reaches initial set in 1-3 hours. Keep patches damp by misting with clean water after initial set, when working in hot, dry, windy conditions. Do **not** wet cure for more than 8 hours. Do not subject to water immersion. Finish after material reaches “thumbprint” hardness. Material may be sanded or polished after set.

MINIMUM APPLICATION TEMPERATURE:

45°F (6°C). Consider air, product, and surface temperatures when working near minimum temperatures.

Safety & Handling: CAUTION! May contain free silica. Avoid breathing dust. Use NIOSH-approved toxic dust mask rated for silica. **Contains Portland cement-Alkaline material;** Avoid skin and eye contact. In case of eye contact flush with clean water for 15 minutes and consult physician. **Read and observe all safety and handling guidelines as detailed in the Material Safety Data Sheet supplied with this product.** Store in dry area, off floor.

FOR COMMERCIAL AND INDUSTRIAL USE ONLY



Before and After: Glazed terra cotta spall (top), filled and smoothed using *THIN-FILL 55* prior to glazing and speckling with *AQUATHANE UA210* and *AQUASPEX 220* coatings (bottom), matched to original glaze colors. Project is California State Library in Sacramento, CA.



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