



MIXING RATIOS –TROWEL OR SPRAY HOPPER

Condition:

Mixing ratios vary for different applications when using Finalcrete. This versatility allows the applicator to gain the best results. Establishing your 1 part measure, whether a cup or small container and using the ratio to master your desired mix will help you achieve overall consistency with the project. See finalcrete.com for more information on different applications. Whether you mix for a trowel, spray hopper or overhead, the right mixing ratio will help you meet the project demands for a professional finish.

Factor:

Much like working with regular concrete, your experience along with common sense will guide you when working with a small batch concrete mix repair product. The demands of different projects call for varying mix ratios to be used. Depending on the application, Finalcrete offers a range of mixing ratios from between a 1:2 ratio slurry to a 1:3.5 ratio stiff mix (liquid to dry) offering versatility on the job with one product. See finalcrete.com for more ideas and information.

Technique:

General mixing guidelines exist for Finalcrete from finishing restoration work to spray top finish to straight forward repair patch work. The mix ratio for parge is generally 1:3 allowing for either vertical or horizontal work to be applied and completed easily. The same mix ratio exists for trowel flat work but remember you can apply Finalcrete on to a damp surface and this is especially true during hot conditions. Although no primer or bonding agent or binder including slurry mix is needed when applying Finalcrete, having the substrate wet helps the hydration process and this becomes important when applying any Portland based cement product in hot conditions. Some contractors during hot and humid summer days alter the trowel mix slightly by using a ratio 1:3.5 and then add ¼ part ice water, mix thoroughly and they extend the pot life. Always mix enough product that you can apply at one time.

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For Trowel Mix Ratio: By one part equal measure, always add Finalcrete Liquid Component A in the bucket first then, add Component B slowly to Finalcrete Liquid Component A which is already in the bucket and blend slowly.

Mixing Ratio: **1 part liquid A to 3 parts dry B.** It is best to use a paddle drill slowly to mix thoroughly and obtain desired consistency before applying.

For Spray Hopper Mix Ratio: By one part equal measure, always add Finalcrete Liquid Component A in the bucket first then, add Finalcrete Mix Component B to Finalcrete Liquid Component A which is already in the bucket and blend slowly. Mixing Ratio: **1 part liquid A to 2 parts dry B.** Use a paddle drill and slowly mix contents together thoroughly. Prepare loose slurry in a bucket using a ratio 1:2 (liquid to mix) and pour contents into a hopper gun. See finalcrete.com Spray Finalcrete Instructions under Product Documentation.

For Squeegee Mix Ratio: By one part equal measure, always add Finalcrete Liquid Component A in the bucket first then, add Finalcrete Mix Component B to Finalcrete Liquid Component A which is already in the bucket and blend slowly. Mixing Ratio: **1 part liquid A to 3 parts dry B.** Use a paddle drill and slowly mix contents together thoroughly. Pour contents onto surface and trowel Finalcrete for best coverage. Before Finalcrete sets use a textured stucco roller to add stucco finish style to flat vertical or horizontal surface. This technique requires practice.

For Gravel Mix Ratio: By one part equal measure, always add Finalcrete Liquid Component A in the bucket first then, add Finalcrete Mix Component B to Finalcrete Liquid Component A which is already in the bucket and blend slowly. Mixing Ratio: **1 part liquid A to 3 parts dry B.** Mix thoroughly then, add **1 part or 1/3 volume of washed pea gravel** or stone to bucket and mix thoroughly again until all stone is mixed with slump. This stone mixture can be used to extend the mix used for flat work and/or concrete crack filler before applying top finish coat. Use a paddle drill slowly to mix thoroughly and obtain desired consistency before applying. Great for filling cracks.

For Tinted Mix Ratio: Tinting is solely based on applicator experience. Add water based latex concrete colour or brick motor dye to Finalcrete Component A based on colour/tint manufacturer's instructions. Blend thoroughly. By one part equal measure, add Finalcrete Mix Component B to Finalcrete Liquid Component A which is already tinted in the bucket and blend slowly. Mixing Ratio: **1 part liquid A to 3 parts dry B.** Use a paddle drill slowly to mix thoroughly and obtain desired consistency before applying. Remember, when tinting, colour is added and mixed with the liquid Component A prior to adding mix Component B. .../3



MIXING RATIOS –TROWEL OR SPRAY HOPPER –continued

Tips:

In a clean container using a paddle drill mixer, blend the two components by adding Finalcrete Mix (Component B) to Finalcrete Liquid (Component A) which is already in the bucket. Mix at low speed until Finalcrete Mix (Component B) is thoroughly dissolved. Keep tools clean with water.

Always agitate Finalcrete Liquid (Component A) before use. Always place liquid in bucket first and add Finalcrete Mix (Component B) slowly before mixing with paddle drill.

Finalcrete as a patching material is designed to be applied with a steel trowel. Finalcrete can be applied up to 2" and brought to 6" in 2" increments. Allow Finalcrete at least 2 hours to cure before over-coating. The cured surface needs no preparation but must be clean before applying second level of product. Do not rework material after it has begun to set. Always mix enough product that you will use in 20 to 30 minutes.

Finalcrete as a thin top coat is designed to be applied with a spray hopper gun. Spraying applications are designed to achieve a thin concrete overlay quicker, easier, and more economically than trowel for both horizontal and vertical surfaces. Different finishes can be obtained from a smooth splatter, skid resistant to a dimpled or knock-down finish with thickness results at approximately 1/16" (1.6 mm). See Spray Instructions on finalcrete.com website.

Option to prepare looser slurry in a bucket using a ratio 1:2 (liquid to mix) and pour contents onto surface can be spread with a squeegee or stucco roller but this technique requires practice as product can be overworked once it begins to set. Generally, it is better to use a stiffer mix and spread with a trowel for a textured finish then, before it sets use a textured stucco roller to add a finish style to flat surfaces. .

A thin top coat or overlay can be applied and feathered to 1/16" (1.6 mm) without adhesion loss. Surfaces can be smooth or skid-resistant finished.

Always consider climate temperatures and humidity when applying including substrate surface. Adjust application techniques to accommodate and protect from direct hot sunlight and high winds when applying outdoors. Always mix what you will use.

These tips and techniques for improving workability by assisting with mixing ratios should help with your concrete repair and restoration projects.