



VERTICAL WALL MIX

STAMPABLE, CARVEABLE VERTICAL MIX

TECHNICAL DATA & APPLICATION INSTRUCTION

PRODUCT DESCRIPTION

Kingdom Products **Vertical Wall Mix** is engineered to be a lightweight and exceptionally strong stampable vertical mix. Designed to make realistic stone, brick, block or any other design your imagination can create. Kingdom Products **Vertical Wall Mix** is stampable or carveable and is suitable for indoor and outdoor use and will adhere to a wide variety of substrates including concrete, masonry, plaster, block, sheetrock, or EPS foam.

APPROXIMATE COVERAGE RATES

Varies by thickness - On average each 40 lb bag will cover approximately 10 sq ft at 1" thick and 20 sq ft at 1/2" thick. The first coat will be applied as a scratch coat. The second coat should be applied from 1" thick and can be applied up to 7" thick without sagging. Do not apply at less than 1" to avoid shrinkage cracks.

MIXING

Add 2 gallons of clean potable water to one bag of Kingdom Products Imperial Vertical Wall Mix. Mix completely for 3 to 5 minutes with a rotary style concrete mixer. NOTE: If using paddle style mortar mixer - pre-wet drum of mixer or mixing vessel and dump excess water out of mixer. Next add about 80% of total mix water to mixer drum. Then add dry powder to the liquid slowly, allow the mix to absorb the water while mixer is turning to avoid the mix from balling up due to low slump. Mix vertical wall mix until mixing process is completed. It may be necessary to stop mixer and scrape any dry powder remaining on mixer walls into mix. At this point allow the product to sit in drum and/or bucket for 3-5 minutes to slack, After slack time: remix the product and temper (add water) to suite need. Do not add more water than suggested. NOTE: the second remixing of the product will greatly increase working time.

APPLICATION

Properly prepare substrate for adequate surface profile and cleanliness. Apply a liberal application of Kingdom Products **Superbond** Bonding Polymer to the substrate with a brush or roller and allow material to turn from a milky white to a clear sticky fluid prior to application of Wall Mix. Apply a scratch coat of Imperial Vertical Wall Mix to the prepared surface. Scratch, rake or roughen the first coat to achieve a mechanical bond. Allow the scratch coat 12 to 24 hours dry time prior to applying stamp coat. This roughening of the first coat will also allow the material to be applied at a much higher build for the next coat of material. Applications over wood can be accomplished with an application of wire or spider lath applied before your base or scratch coat.

Once again, apply a coat of Kingdom Products' **Superbond** Bonding Polymer to the substrate with a brush or roller, allowing it to turn from a milky white to clear & tacky. When the Imperial **Vertical Wall Mix** has been applied at the desired thickness and has set for the desired amount of time, the material may be finished by stamping, texturing or hand carved stone facing. The surface needs to have sufficient time to set but still be plastic enough to obtain a good texture. The material may be carved or molded as it gains strength from time of application until 12 - 18 hours after installation. Cooler temperatures will give you longer working time, hotter temperatures, shorter working times.

Kingdom Products **Vertical Wall Mix** may be applied by traditional hawk & trowel method, sprayed on with mortar sprayer or hand packed into position with rubber gloves. Texturing may be achieved with texture rollers, texture skins, texture mats, texture floats and ornamental carving and sculpting tools. Do not apply Kingdom Products **Vertical Wall Mix** at less than 1" to avoid shrinkage cracks.

FINISHING TIP / CURING

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Do not over-water the mix. Set time will be determined by physical temperature of substrate, the temperature of the mix water, the temperature of dry mix itself and overall weather conditions at the time of application. After application and once the material has had the opportunity to cure out and the excess moisture has evaporated from the **Vertical Wall Mix**, within about 24 hours, it may be colorized with Kingdom Products **Olde World Stain** system.

SEALING

Once all colorization has been completed, Kingdom Products recommends film forming coatings for additional gloss and maximum stain resistance. Imperial I-Tech is highly recommended but other Acrylic sealers, Water-based sealers, Epoxies, Polyaspartic and Lithium Densifiers are all suitable. However, it may remain in its natural state with only the wall color applied.

STORAGE

Do not subject Kingdom Products **Vertical Wall Mix** to moisture prior to use. Keep product in a cool dry location. In cold climates, store the product at room temperatures and bring product to a temperature range of 60 degrees to 80°F prior to use. Colder material may take longer to achieve final set time, while hot material may set very quickly.

SHELF LIFE

Keep in cool, dry location in a tightly sealed container. Avoid storing directly on top of a concrete slab. Place a barrier between the **Vertical Wall Mix** bags and the concrete floor (ex. plastic, pallet, etc).

SPECIAL NOTES

Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use.
FOR PROFESSIONAL USE ONLY

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