



IMPERIAL VERTICAL WALL MIX

STAMPABLE, CARVEABLE WALL MIX TECHNICAL DATA & APPLICATION INSTRUCTION

PRODUCT DESCRIPTION

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

BENEFITS/FEATURES

- One Component
- Lightweight
- Exceptionally strong!
- Interior / Exterior
- Up to 18 hours working time
- Carve it, stamp it, sculpt it
- Can be integrally colored or topically stained
- Apply up to 7" on 2nd lift without sagging!
- Create realistic stones, blocks, bricks, wood & more
- Adheres to a variety of substrates including concrete, masonry, plaster, sheetrock or EPS foam

RECOMMENDED APPLICATIONS

- Pool/Water Features
- Fireplace Surrounds/Mantles
- Exterior Walls
- Feature Walls
- Firepits
- Sculpture
- When "the real thing" isn't cost effective or physically practical/possible

TECHNICAL INFORMATION

Working Time.....	12 - 18 hours (environ dependent)	Concrete Adhesion.....	Excellent
Drying/Recoat Time.....	varies	Freeze-Thaw Resistance.....	Excellent
Rain Concern.....	not if forecast within 24 hours	Wet Appearance.....	Medium Gray
Rain Concern (w/ color).....	not if forecast within 48 hours	Dry Appearance.....	Light Gray
		Application Temp.....	50°F - 85°F

**Please note that low air and/or concrete temperatures and/or relative humidity will extend drying times.

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.

PACKAGING

Imperial Vertical Wall Mix is manufactured and stocked in 40 lb bags.

STORAGE & SHELF LIFE

Do not subject **Imperial Vertical Wall Mix** to moisture prior to use. Keep product in a cool dry location in a tightly sealed container. Avoid storing directly on top of a concrete slab. Place a barrier between the bags & the concrete floor (ex. plastic, pallet, etc). 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 will take longer to achieve final set time, while hot material will set very quickly. Shelf life is one year from the date of manufacture as long as containers remain unopened and stored under the proper conditions, in an environment free of moisture, direct sunlight, excessive heat and freezing temperatures. Transfer any leftover material to a plastic pail with a gasketed lid to extend the shelf life.

APPLICATION

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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 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.

Imperial 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 **Imperial Vertical Wall Mix** at less than 1" to avoid shrinkage cracks.

FINISHING TIP / CURING: DO NOT overwater this 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. Give the mix approximately 24 hours to cure out and allow any excess moisture to evaporate. If mix is applied at less than 1" thick, shrinkage cracks may occur. If this happens, mix up a small amount of product and feather in the repairs. Allow product to dry and cure about 24 hours before applying any stain and/or sealer.

SEALING: Once any necessary repairs have been made and all colorization has been completed, Kingdom Products recommends film forming coatings for gloss, stain resistance and color protection. In exterior applications, if no coloring has been applied, a natural look, water repellent like Kingdom Products' *Aqua Pella* would serve as sufficient protection.

PRECAUTIONS AND LIMITATIONS

- Apply **Imperial Vertical Wall Mix** to a properly prepared, sound substrate. Do not apply over dust, dirt, debris or a previously sealed surface until all of the sealer has been removed.
- DO NOT overwater this product!
- Allow **Superbond** to completely dry prior to application of wall mix.
- Avoid using in temperatures below 50°F or above 85°F.
- **Imperial Vertical Wall Mix** may shrink if applied at less than 1" thick.
- The proper application, supervision of use & quality control of this product is the sole responsibility of the end user.

SPECIAL NOTES

Please consult Safety Data Sheet (SDS) and Technical Data Sheets (TDS) and read Warranty information prior to use.

FOR PROFESSIONAL USE ONLY! Always install a test area or job site mock up for owner approval of acceptable color, texture, finish adhesion and any other critical requirements prior to proceeding with the installation. Verify that the most current versions of the Technical Data Sheets (TDS) and installation guidelines are being utilized.