



IMPERIAL VERTICAL CARVING MIX

LIGHTWEIGHT STAMPABLE, CARVEABLE VERTICAL MIX

TECHNICAL DATA & APPLICATION INSTRUCTION

PRODUCT DESCRIPTION

Kingdom Products' **Imperial Vertical Carving 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 Carving Mix** is stampable, carveable 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

- Apply up to 7" on 2nd lift without sagging!
- Create realistic stones, blocks, bricks, wood & more
- Up to 6 hours working time
- Carve it, stamp it, sculpt it
- Can be integrally colored or topically stained
- One Component
- Lightweight
- Exceptionally strong!
- Interior / Exterior
- 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.....3 - 6 hours (environ dependent)	Freeze-Thaw Resistance.....Excellent
Drying/Recoat Time.....varies (environ dependent)	Wet Appearance.....Medium Gray
Rain Concern.....not if forecast within 24-48 hours	Dry Appearance.....Light Gray
Concrete Adhesion.....Excellent	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 - Each 50 lb bag will cover approximately 12 sq ft at 1" 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. If application requires thickness of less than 1", consider using Kingdom Products *Imprinta Stampable Overlay*.

PACKAGING

Imperial Vertical Carving Mix is manufactured and stocked in 50 lb bags.

STORAGE & SHELF LIFE

Do not subject **Imperial Vertical Carving 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 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. Transfer any leftover material to a plastic pail with a gasketed lid to extend the shelf life.

REINFORCEMENT

ON WOOD– Mechanically fasten galvanized steel lath to substrate, coat with Superbond allowing it to turn clear and tacky and embed lath in scratch coat of adhesive mortar.

ON FOAM OR MASONRY– Embed EIFS lath, Spider-lath or AR Glass Fiber into scratch coat of adhesive mortar.

APPLICATION

IMPERIAL VERTICAL CARVING MIX

MIXING: **Imperial Vertical Carving Mix** requires the use of a rotary style concrete mixer. Pre-wet drum of mixer or mixing vessel and then dump excess water out of mixer. Each bag requires approximately 1.0 gallon of clean potable mix water. Add about 80% of total mix water to damp mixer drum then add the dry powder to the liquid slowly, allowing the mix to absorb the water while mixer is turning to avoid the mix from balling up due to low slump. Mix completely for approximately 3 to 5 minutes. It may be necessary to stop the mixer and scrape any dry powder remaining on mixer walls into the wet mix. At this point allow the product to sit in the drum and slack for 5 to 10 minutes. After slack time, remix the product and temper (add water) to suit. Do not add more water than the total recommended.

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 **Carving Mix**. Apply a coat of **Imperial Vertical Carving Mix** or *Imperial Core Bond* to the prepared surface and scratch, rake or roughen the material. The roughening of this first coat will also allow the material to be applied at a much higher build for the next coat of material. For thicker, heavier applications, create a coarser, deeper scratch coat with embedded mesh. Allow the scratch coat to dry completely, prior to applying stamp or carve 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 Carving 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 carving. 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 3 - 6 hours after installation. Cooler temperatures will give you longer working time, hotter temperatures, shorter working times.

Imperial Vertical Carving Mix may be applied by traditional hawk & trowel method, sprayed applied with a 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 & sculpting tools. Avoid applying **Imperial Vertical Carving Mix** at less than 1" to avoid shrinkage cracks. If shrinkage cracking does occur, simply mix up a small amount material and feather it in. Be sure to do this before coloring or sealing.

CURING: Set time will be determined by physical temperature of substrate, the temperature of the mix water, the temperature of the dry mix itself and overall weather conditions at the time of application. Allow approximately 24 hours cure time to allow excess moisture to evaporate before applying any stain 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. If no coloring has been applied, a natural look, water repellent like *Kingdom Products' Aqua Pella* will serve as sufficient protection.

PRECAUTIONS AND LIMITATIONS

- **Imperial Vertical Carving Mix** requires the use of a rotary style concrete mixer.
- Apply **Imperial Vertical Carving 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 **Carving Mix**.
- Avoid using in temperatures below 50°F or above 85°F.
- **Imperial Vertical Carving 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.