



BRICKFORM® Texturing Statement

These specification guidelines are intended for use by a qualified concrete construction specifier and are not intended to be used as a project specification. Coordinate each section with other specification sections and the drawings. Prepare specification in accordance with ACI recommendations and other applicable industry guidelines. Each section must be carefully reviewed and edited to meet the requirements of the project and local building code. Bracketed [] sections are intended for modifications regarding specific use and color or texture selection and are included for the convenience of the specifier.

REPRESENTATIVE SAMPLES

Samples, using the selected color combinations and texture(s) should be prepared and approved prior to installation.

Preparation of Sub-grade 1.0

The sub-grade should be uniformly graded and evenly compacted. In warm weather, it is recommended to soak the ground prior to concrete application, but the sub base material must be dry at the time of placement in accordance with ACI 302.1R-04.

Concrete and Admixtures 1.1

- The concrete mix design should meet the strengths of the given project and should be suitable for external paving with a minimum of 4000 psi.
- Color Hardeners are compatible with most water reducers, set retarding and air-entraining admixtures.
- Recommend a 5 1/2 or 6 sack mix
- If using air entrainment, a maximum of 3–5% is recommended for Color Hardener applications.
- Avoid using admixtures that contain calcium chloride in any form, this will have an adverse effect on the final color.
- High water cement ratios and use of chlorides may also increase efflorescence that results on the surface.
- Recommend a 4" slump
- Do not use additional water in the field

Formwork 1.2

- The formwork should be set to establish proper drainage of the area and to be used for screeding and layout. A minimum 2% slope should be allowed for exterior paving sections.
- Avoid texturing hazards by setting all grade pins below grade.
- All formwork should be properly squared to any existing structures, This is of especially important if a patterned texturing tool is specified.

COLOR HARDENER METHOD STATEMENT

BRICKFORM Color Hardener is an engineered blend of carefully selected sands, cements and organic pigments. used to color the surface of freshly placed concrete. Color Hardeners form a dense layer that is abrasion and impact resistant.

Application of Color Hardener 2.0 [_____color]

- Protect surround areas and landscaping where color is not desired.
- Place concrete correctly to level and float with a wood or resin float.
- Once excess bleed water has evaporated from the concrete surface the Color Hardener can be applied at a minimum rate of 60 pounds per 100 square feet. Some colors may require 80 or 100 pounds per 100 square feet.
- First apply two thirds of the required Color Hardener evenly to the surface, and then work into the concrete with a wood or resin float.
- During the second application, use the final third of the Color Hardener and apply at a 90° angle to the first application, resulting in a uniform coverage of Color Hardener.
- Using a wood or resin float work the Color Hardener into the concrete to become monolithic. A steel trowel should never be used to work in the Color Hardener unless a mechanical trowel is being used.
- Once the Color Hardener has been sufficiently worked into the concrete it can be finished with a steel trowel to a denser surface. If texturing with imprinting tools is planned, a hard trowel finish is not required.

For written product specification please see the **BRICKFORM Color Hardener Technical Information Sheet.**

RELEASE POWDER METHOD STATEMENT

BRICKFORM Release Powder is a blend of talk like products and organic pigments that forms a waterproof barrier for imprinting stamped concrete, it can also give a secondary color to the Color Hardened concrete.

Application of Release Powder 3.0 [_____color]

- Once the Color Hardener has been completely smooth troweled and the concrete is still in a plastic state, the release powder can be applied.
- Prior to application it is important to beat air back into the Release powder as this material settles during transportation. Shake the pail well and/or mix with a stick or paddle mixer.)
- When the release Powder is filled with air you can start to broadcast over the surface of the concrete, this can be done by hand or by using a Tampico brush. When broadcasting, try not to cause impact to the surface, you should be as low to the concrete as possible. Cast across the surface not down toward the surface.
- The rate of application will vary depending on the concrete set rate, depth of desired texture and wind speed. Use 3.5 pounds or more per 100 square feet. Use caution not to allow the material to be applied too thickly or allowed to form clumps on the surface. This will result in little or no texture on the surface.

STAMPING & IMPRINTING METHOD STATEMENT

BRICKFORM Concrete Stamps are available in many designs which emulate materials such as Stone, Slate, Brick and Wood. Our complementary Product Guide offers over 175 patterns. BRICKFORM Concrete Stamps are made from a high quality urethane with fixed handles designed for quick and easy placement. There are many variables to consider as to when and where to start to texture the concrete.

- Temperature
- Sunlight
- Shade
- Wind
- Access
- Depth of the stamp tool

SEAMLESS TEXTURE SKINS [_____texture]

Application of Seamless Texture 4.0

- Seamless Texture is by far the fastest way of stamping concrete as there is no set directional pattern to follow.
- Once you are confident that the concrete will support the weight of the person and the tool, you may begin placement.
- Using a minimum of 3 large Seamless Texture Skins, place the first skin flat on the surface of the concrete using the handles. When placing your stamps, do not drag the tool across the concrete as this will scuff and scratch the surface.
- The second and third Seamless Texture Skins should overlap the first by 4 – 6 inches.
- Once you have stamped the texture evenly into the concrete you have to under-lap the first skin from the other two before you can pick it up to move it to its next position. Repeat this process until you have covered the complete area. (If the concrete is too soft to stamp, you should refrain from stamping until it has a suitable consistency before continuing.)
- When you move each stamp, rotate it 90 degrees. This will ensure that there is little or no repeat in the design.
- Use a small Seamless Texture Skin to work around any hard-to-reach edges like steps, walls and columns. This is called detail work.

For more detailed information on how to properly texture concrete please refer to the BRICKFORM DVD or VHS guide.

**PATTERNED TEXTURE TOOLS (Product Number _____)
(_____ texture)**

Application of Patterned Texture 4.1

- Patterned texturing tools require careful layout and tool placement to insure project quality, joint spacing should also be considered as criteria for tool placement.
- Once you have considered all the variables and you are confident that the concrete will support the weight of the person and the tool you can place your first stamp.
- Enough tools must be used to span the entire slab in one direction and begin the second row. Place the first flat on the surface of the concrete using the handles. If possible, always start against the structure or any straight edge that will permit the tool to remain square. When placing your stamps ensure that you do not drag the stamp across the concrete as this will scuff and scratch the surface.
- Continue to set the remaining tools into place lining up the edges with the notch to keep the pattern square to itself. Please get a copy of the technical data sheet for the tool selected.
- Once you have set the tools in place using a pounder or tamping tool, the next row may begin. Always set the next row tight to the existing row to keep the lines tight and square. Continue to move and tamp the tools in the direction of the pour until the entire area has been textured. (If the concrete is too soft to continue stamp, you should refrain from stamping until it has a suitable consistency before continuing.)
- BRICKFORM patterned tools are color coded to help reduce repeat in the pattern on the surface. Always rotate the colors so the surface will be properly randomized.
- Use a small Seamless Texture Skin to work around any hard- to-reach edges like steps, walls and columns. This is called detail work. Additional detail can be done using a touch-up wheel and chisel to carry joints into the edges and wall lines.

CURING & WASH DOWN METHOD STATEMENT

Curing 5.0

- The curing method used shall not result in damaging the surface or the color of the fresh concrete, but should commence as soon as possible after finishing is completed.
- Low shrinkage admixtures and polypropylene fibres can be used in the concrete to reduce cure rates during early concrete set times.
- Use of BRICKFORM Evaporation Retarder can also help prevent rapid moisture loss from the surface of the concrete during the plastic state.
- Physical membranes may be used for curing as long as they are breathable and leave no marks or differential curing patterns on the surface (never use poly sheeting for this).
- The curing method to be used should be demonstrated in the mock up panel for test purposes.
- Note the main purposes for curing concrete are to increase durability and reduce the effect of early carbonation on the surface. Use of color hardener will increase the durability significantly. Keeping the powdered release agent on the surface for a period of 7 days will help prevent early carbonation from affecting the surface, by limiting the exposure to carbon dioxide in the atmosphere.

Wash Down 6.0

- BRICKFORM strongly recommends that the concrete has a minimum of 48 hours to harden before the wash down procedure (a longer period may be used if using the release as part of the curing mechanism).
- Sweep all excess Release Powder from the surface and dampen down the surface with water.

- Use a pressure hose (Jet Wash) with a minimum of 2000 psi to start cleaning off the Release Powder.
- Working the dampened surface with a soft bristle push broom will help remove the Release Powder quicker. Some contractors prefer to use a swing buffer with soft bristles on the attachment.
- Using a detergent also helps, but you must make sure to use a non greasy detergent EG: most citrus detergents.
- BRICKFORM Antique Release and Efflorescence remover should be used for stubborn stains and can be used for all of the wash down process.
- Clean all of the concrete surface until the water runs clear and the overall appearance is as desired.

Detail & Patching 6.1

- During the texturing operations some minor flaws and defects may be visible on the surface and should be addressed at this time, the use of color hardener as a coloring agent enables true color matching during the patching and repair process.
- For joint detail and edges a 4" grinder with a diamond wheel may be used to touch up joints that were missed during the texturing procedures. Also to carry joints into wall lines or edges that could not easily be reached using a texturing tool.
- Color correction and patching may be done by using color hardener as a patching material. The areas to be repaired should be free of any release agents, bond breakers, dust or debris. Prime the patch area using an acrylic bonding agent and allow it to become tacky before applying the patching material. Smooth the patching material into place, shape and trowel. The patched area should be textured to match the surrounding areas.
- For smaller areas or voids where a feather edge is required the color hardener may be sifted using a paint strainer or screen to remove the silica aggregates from the material. This will enable the material to blend into surrounding areas seamlessly.
- Typically the patching material is mixed with small portions of water to a dry putty like consistency, adding a small amount of the acrylic bonding agent or polymer additive will give the material extended elasticity required for smaller patches.
- Allow the patched or repaired areas to cure to an even color consistent with the surrounding areas before sealing.

SEALING METHOD STATEMENT

BRICKFORM offers four Lacquer based sealers, depending on the VOC in each state you may be limited to a certain type of sealer. All BRICKFORM sealers follow the same application process. We recommend that the concrete should be sufficiently cured and moisture migration be complete. The surface should be free of dust, debris and all contaminants. Consult the product technical data sheet for complete instructions.

Sealer Application 7.0

- First coat of sealer should be applied evenly through a high pressure sprayer.
- Second coat should be applied when the first coat has completely dried. (3 hour re-coat time)
- Depending on the porosity of the concrete you may need a third coat.
- Foot traffic is permitted within 24 hours and vehicular within 72 hours.
- Use caution if applying sealer in high temperatures as blistering may occur on the surface.

For Written Product Specification, Please get a copy of the appropriate Technical Information Sheet.