Please refer to the CBC Flooring website www.cbcflooring.com for the most current guidance about product application charts, material handling, subfloor preparation and testing, product installation and maintenance recommendations.**Failure to follow these instructions may result in installation related problems.**

✦ Do not install unless you have the correct product, color and quantity of materials. Check for visible damage before installation. Immediately notify CBC Flooring of any discrepancies BEFORE installation. Installation of materials implies acceptance. No credit for labor will be provided for installing the incorrect materials or materials with visible issues.

✦ Handle materials with care to prevent damage. DO NOT DOUBLE STACK PALLETS.

✦ Store all flooring products and accessories in a dry interior area maintained between 50°F-85°F (10°C-29°C). Avoid temperature extremes.

✦ Store cartons of tile or plank flooring flat and squarely on top of one another. Do not lie on edge.

✦ Acclimate flooring, adhesive and substrate in the area to be installed to a stable condition between 65°F-85°F (18°C-29°C) (minimum of 68°F or 20°C for EcoSpray) and 20%-65% RH for a minimum of 48 hours before, during and after installation. Afterwards, maintain a minimum temperature of 50°F (10°C) for the life of the floor.

✦ Refer to Material Handling & Subfloor Preparation Guide for additional product handling and subfloor preparation guidance.

Adhesive Selection

✦ Make sure that you have the recommended adhesive and trowel size for installation conditions. Use only recommended adhesives as others may not provide satisfactory performance. For most installations, CBC Flooring recommends using **CBC 5001** acrylic adhesive. See the Selection Chart below or call CBC Technical Support for assistance at 1-919-230-8700.

CAUTION: For areas subject to heavy topical moisture or temperature extremes use CBC 951 Epoxy.

	RH Limit	pH Limit	Trowel Size	Unit Size	Coverage per unit	Weight (lbs) per Unit	TOLI Lightwood	Halo LVT & Asento	Recommended Wet or Flood Washed	Extreme Heat or Cold	Heavy Static Load	Custom Designs
CBC 5001 Acrylic	85%	10.0 pH	1/32 x 1/16 x 1/32 U-notch	4 Gallon	880-1,040 SF	40.0	P	P		◆		◆
			1/32 x 1/16 x 1/32 U-notch	4 Gallon	1,200-1,400 SF	40.0	N	N		◆		◆
EcoSpray U Acrylic	90%	11 pH	N/A	6 cans/ctn	180-200 SF/Can 1,100-1,200 SF/Ctn	11.0	◆	◆			◆	◆
Envirostix Pre-Applied Poly Acrylic	96%	11 pH	N/A	N/A	N/A	N/A	◆	◆	◆	◆	◆	◆
CBC 951 2-Part Adhesive	80%	10 pH	1/32 x 1/16 x 1/32 U-notch	1 Gallon	175-225 SF	29	◆	◆	◆	◆	◆	◆

Surface: P=Porous   N=Non-Porous   u= Porous & Non-Porous

For Installation with EcoSpray, refer to the individual product EcoSpray Installation Guides available at www. cbcflooring.com. For installation with EnviroSTIX, refer to the adhesive manufacturer's installation instructions.

Manufacturer	Adhesive	Website	Telephone
BaseKing	EnviroSTIX	www.envirostix.org	888-428-3106

Instructions for the use of CBC 5001

CBC 5001 High Performance Flooring adhesive can be used on most applications.

CAUTION: For areas subject to heavy topical moisture or temperature extremes use CBC 951 Epoxy.

✦ Check flooring materials before installation to make sure they are the correct product, size and color specified and free of visible damage or defect. Immediately notify CBC Flooring or any discrepancies BEFORE installation. Installation of materials implies acceptance. No credit for labor will be provided for installing the incorrect materials or materials with visible issues.

✦ Spread adhesive evenly. Do not allow any puddles or lumps of adhesive.

✦ When using **CBC 5001** be sure that trowel notches are as recommended and kept clean. CBC does not recommend re-notching a trowel by hand. Replace the blade or entire trowel as necessary to insure proper coverage.

✦ For porous or rough substrates the tiles or planks may be placed into adhesive after 10-20 minutes of open time.

✦ For smooth and non-porous substrates install tiles or planks into adhesive as it becomes dry to the touch, normally 30-45 minutes based on humidity and surface porosity.

✦ Work off the flooring to prevent adhesive from oozing, shifting of material, or indentation from adhesive displacement. If you must work on top of the material, use large kneeling boards or 1/2" blue foam insulation.

✦ Roll the flooring with a 100 lb. 3-section roller after setting flooring into adhesive.

✦ Allow immediate foot traffic on installations over adhesive that is dry to touch on non-porous substrate. Wait a minimum of 3 hours for foot traffic on installations over adhesive that is wet to touch on porous substrate.

✦ For all applications, wait 48 hours for rolling traffic or point loads.

Dye Lots

✦ The installation needs to be planned to control dye lots. The installation of multiple dye lots together implies acceptance of material.

✦ Dye lots, or Lots are printed on each product label. For TOLI Floors, the first 4 digits of the production code represent the dye lot.

✦ Check the dye lots on each unit as there may be more than one dye lot on a pallet.

✦ If more than one dye lot is used in the same room, compare flooring materials to see if a color, texture or gloss variation is present.

✦ Dry lay different dye lots together for owner approval BEFORE installing.

✦ If dye lot differences stand out, keep materials from the different dye lots separate.

✦ CBC Flooring wood and stone visual products imitate natural wood and stone materials. Slight color variations may be present within a dye lot and are not considered manufacturing defects.

Installing Tile Products

✦ Laying out the job is done the same way as standard 12" x 12" tiles.

✦ Where border areas are plainly visible, care should be taken to center the pattern so border tiles are the same size on each side. In all cases, avoid cutting border tiles less than 6 inches.

✦ Proper planning is important, so 'dry lay' (without adhesive) some tiles to be sure of the layout.

Tile Direction

✦ Tiles can either be laid all in one direction, or quarter turned.

✦ To assist the installer, most tiles have arrows on the back. The arrows show machine direction during manufacturing.

✦ Rectangular tiles are normally laid out in a brick pattern.

✦ The End User or Specifier should determine tile direction and layout.

✦ To be sure, 'dry lay' a section of tile to see if the desired look has been achieved.

Cutting Tile

✦ Tile products can be cut using a tile cutter, a linoleum knife or a utility knife.

✦ Keep knife blades sharp for easy, accurate, safe cuts.

✦ Fit tiles using the same methods as other floor tiles (overlap, pattern scribe, wall scribe, freehand).

✦ Avoid heating tiles when cutting. If it is necessary to heat tiles, heat very slightly from the back.

Custom Designs

✦ CBC tile flooring can be specified with custom patterns or logos. The tile can be cut into custom designs two ways: by fabricators using water jet and ultrasonic cutting or by the installer at the job site.

✦ If you are interested in having your custom design precut, please contact your local CBC Flooring representative regarding custom cutting.

✦ Custom cutting done by the installer on the job site should be cut from the top of the tile using a very sharp knife.

Installing Tile with Divider Strips/Grout

✦ TOLI Divider Strips are 36 inches long and either 3 mm wide Type D (approximately 1/8") or 5 mm wide Type F (approximately 3/16").

✦ Halo Divider Strips and grout are 36 inches long and 3/16" wide.

✦ The most popular design using divider strips, stripping or grout is to install one strip around each tile, similar to the look of a grout joint or a metal divider strip. Other designs may be created using Tile or Plank products with divider strips, stripping or grout.

✦ These instructions assume that divider strips, stripping or grout will be installed around each tile. For this pattern, order one strip for each tile plus 10% waste. The installation of stripping or grout is a simple process using the following steps:

  ✦ "Dry Lay" a small section of flooring to determine the starting point. Find the center and establish working lines, as you would for any normal tile installation. Calculate the center based on the size of the pattern you are creating (tile size + divider strip = pattern size). "Dry lay" a small section of flooring to establish the starting points, which may require moving the working lines. This will also help the installer and the customer to visualize the pattern before starting the installation.

  ✦ Precut a supply of divider strips to the same length as one tile.

+ (Figure 1) Spread the adhesive and allow the proper set up time. Begin laying the tile along the working line. Insert one of the precut divider strips between each tile. Install the field tiles first, and the border tiles later. Use a hand roller as you lay each strip, to be sure the strip makes full contact with the adhesive.

+ (Figure 2) Before laying the next row of tiles, lay a row of full-size divider strips along the first row. Use a hand roller to be sure the strips make full contact with the adhesive.

+ (Figure 3) Lay the next row of tiles against the row of divider strips.

+ Insert one of the precut divider strips between each tile.

+ (Figure 4) Before laying the next row of tiles, lay a row of full-sized divider strips against the second row.

+ Repeat the steps above until the field tiles have all been laid. Be sure to use a hand roller to be certain the divider strips make full contact with the adhesive. When finished, roll the entire floor with a 100-lb. roller.

+ Cut and adhere the border areas. Roll the divider strips using a hand roller to ensure they make full contact with the adhesive. When finished, roll the entire perimeter with a 100 lb 3-section roller.

+ Keep foot traffic and rolling or point load traffic off the floor for the time specified by the adhesive used.

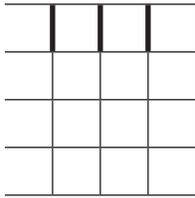+ Begin maintenance program after the time specified by the adhesive used.
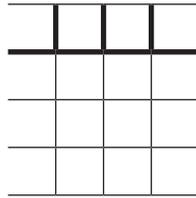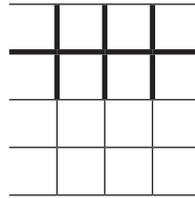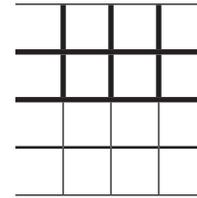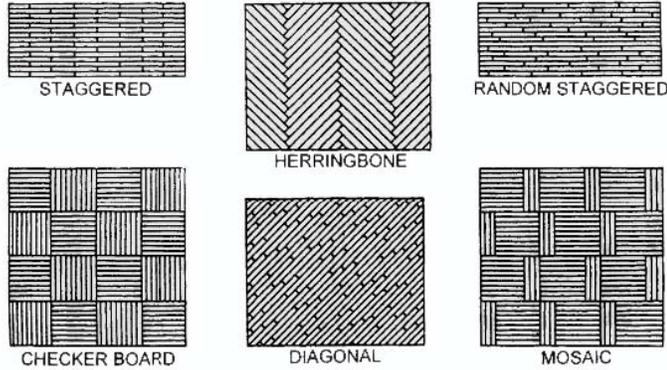
| Figure 1 | Figure 2 | Figure 3 | Figure 4 |

Installing Plank Products

Note: Installing Halo plank with TOLI Lightwood plank will create gapping problems due to size differences. Lightwood plank are metric sized while Halo plank are imperial sized.

+ CBC plank flooring is manufactured to simulate real wood planks, and can be installed just like a wood plank floor in a random staggered pattern, diagonally, herringbone, or others (see diagram below).

+ Plank flooring can be installed in the 'Checkerboard' design with or without using TOLI divider strip or Halo stripping around each block of the design.

+ Straight lay planks can be installed starting at the longest straightest wall or like a tile installation, from the center of the room. Measure accross room and make sure last plank will be at least 1/2 plank wide or trim first plank.

+ If installing planks in a pattern, planks should be installed from the center of the room. Find the center and establish working lines, as you would for any tile installation. When starting installation along the longest wall, move working line 2-3 feet away from the wall.

+ Lay a section of plank without adhesive to establish the pattern (see pattern reference below). Care should be taken to avoid cutting planks less than 9 inches long, or less than half the width of the plank. Move your working lines to achieve this. Dry laying a section of flooring assists this process.

+ Spread the adhesive and allow the proper set up time. Lay the first plank from the starting point, following the working line. Lay the first 2 rows across the room. Place the planks aligned to the reference line butted together tightly. Careful placement of the first row of planks is very important, since the rest of the planks follow the first row. Set all of the full planks first, and then fit the border planks later.

+ To fit border planks, use the overlap method as you would for square tiles: Place a full plank on top of the last full plank installed. This is the plank to be cut. Then place another plank flush with the wall, overlapping the plank to be cut. Mark a line on the plank to be cut, cut the plank following this line, and install the plank net to the wall. Be careful not to cut planks too tight to the wall. This will cause the plank to buckle. Crosscuts on LVT Planks can be done using a tile cutter, or a utility knife with a small carpenter's square or straightedge. Lengthwise cuts work best with a straightedge. Keep a sharp blade in your knife for easy, accurate, safe cuts.

+ For beveled planks, always butt factory edge to factory edge. Be sure not to place cut edges against beveled edges. Cut edges can be beveled using a sanding block and medium grit sandpaper. Hold the sanding block at the same angle as the bevel and sand to match factory bevel.

Transition Strip

✦ For installations where products of different thicknesses will meet. The transition strip is an easy way to bridge the height difference between the two products.

✦ To install the Transition strip, install either the tile or the resilient sheet flooring first.

✦ Leave a clean, straight edge where the transition will be installed.

✦ Lay the transition strip into the adhesive, fitting tightly to the flooring's edge.

✦ Roll with a hand roller.

✦ Allow the adhesive to set.

✦ The other flooring material can then be cut and adhered to fit tightly to the adhered transition strip.

Transition Strip: 36" Length available only in color # 3 - Medium Grey

.080" (2.0 mm)   1/8" (3.0 mm)

5mm (approximately 3/16"or .2") wide

Product, Nominal Size	Metric	Inches	Sq.Ft/ Piece	Pieces/ Box	Sq.Ft/ Box
TOLI Lightwood 4 x 36	100 mm x 900 mm	3.9 x 35.4	0.973	30	29.2
TOLI Lightwood 6 x 36	150 mm x 900 mm	5.9 x 35.4	1.46	20	29.2
Halo Woods 4 x 36	102 mm x 914 mm	4 x 36	1.00	36	36
Halo Woods 6 x 36	152 mm x 914 mm	6 x 36	1.50	24	36
Halo Stones & More Tile 18 x 18	457 mm x 457 mm	18 x 18	2.25	20	45
Halo Stones & More Tile 24 x 24	610 mm x 610 mm	24 x 24	4.00	10	40
Halo Stones & More Tile 12 x 24	305 mm x 610 mm	12 x 24	2.00	20	40
Halo Asento Plank 4 x 36	102 mm x 914 mm	4 x 36	1.00	36	36
Halo Asento Plank 7 x 48	178 mm x 1220 mm	7 x 48	2.33	18	42
Halo Asento Tile 12 x 24	305 mm x 610 mm	12 x 24	2.00	21	42
Halo Asento Tile 18 x 18	457 mm x 457 mm	18 x 18	2.25	16	36

When the installation is complete, follow the flooring products appropriate Maintenance Guide.

Contact Information
For additional information, please call 919-230-8700
Email: technical@cbcflooring.com
www.cbcflooring.com

CBC Flooring