THE PATRIOT

SMARTBARK ENGINEERED
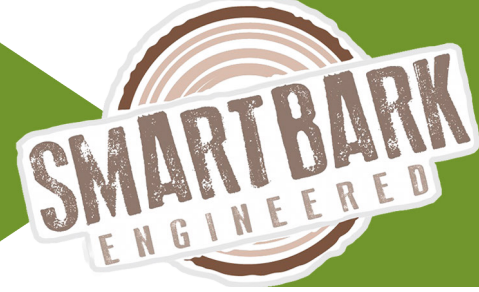
Proper installation of your SmartBark™ siding is crucial to ensure longevity and to achieve the most beautiful result for your home or project. Please read the following guide in its entirety.

Tools:
1. Miter Saw
2. Table Saw
3. Drill
4. Tape Measure
5. Level
6. Chalk Line
7. Caulking Gun
8. Pen

MATERIALS:
1. SmartBark™ shakes - Part A,B,C & D patterns
2. Exterior Screws-colored decking screws with the desired length to extend through wood substrate
3. Construction adhesive compatible with polyurethane or caulk
4. Clear Caulk 100% Silicone
5. Specified coating for all cut or countersunk surfaces: Sherwin Williams: BP siding series or Resilience series FLAT Finish in Smokehouse #7040. <u>Failure to coat any and all cut or countersunk areas on the surface will void the warranty.</u>

NOTE: SmartBark™ shakes do not require roofing underlayment between each course and are attached to the substrate primarily by screwing through the top and right – hand, hidden attachment flange and down the left flange area as needed.

SmartBark™ shakes require approved house wrap barrier, overlap and tilt are built into the shake, and the shakes fit together in only one fashion, always working from left to right. Screws are primarily fastened through the hidden attachment flange on the top and right side of every shake. The channel on the bottom of every shake will fit tightly into the course below. Facial screws can be applied down the left "no flange area" as needed for added strength.

BEGIN WITH WALL PREP: Substrate must be rigid plywood or approved OSB covered with an approved house wrap barrier that will offer water resistance and breathability.

IMPORTANT! The Patriot comes in 4 panel patterns that are each slightly different to replicate natural bark. When starting a wall, set 1 box of each style out. Mix up the different panels in no specific order - the more random the better. Continue this process throughout the entire install for best results.

Step1. Begin installation of the shakes with a full panel at the bottom, far left of the wall. Start by cutting the 1st 1$^{1/4}$" of the left side off on a table saw. Fasten shake with screws through the hidden attachment flange in the locations shown on the right. There will be two fasteners on the top flange and three on the right flange.

END OF COURSE - FASTENERS AS NEEDED FOR TIGHT FIT AGAINST WALL AND "SEE INSTRUCTIONS - CUT 1 / 14" OFF THIS LEADING EDGE

FASTENER POINTS

STARTING COURSE - ONE FASTENER ON BOTTOM LEFT OF EACH SHAKE

Step 2. Continue fastening across the row fitting each shake tight against the shake to the left.

Step 3. At the beginning and end of each course and at the bottom of starting courses, fasten the shake with 2 to 3 additional screws through the face, on the ridge of the bark pattern, as needed to achieve a tight fit against the wall.

Step 4. Strike a chalk line to check that your course is level and begin installing the second course of bark shakes from the far left, beginning with a partial shake. Be careful to stagger seams between shakes so they do not line up with the course below.
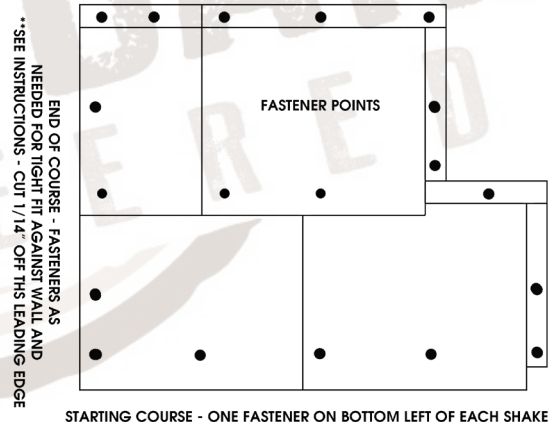
Step 5. Continue with additional courses as necessary. Each course should fit tightly into the course below. Remember to stagger the joints.

Step 6. Caulk the top of each shake where the two join together on the TAB (flange).Caulk course ends as necessary for weather- tight fit at windows, doors, trim, etc...

ANGLED CUTS:
Because tilt and the hidden attachment flange are built in to each shake, it is important to cut shakes in a manner that preserves the overall integrity of the shake. If a cutout must be made, the right side of the shake should be cut away, preserving the left side of the shake to be tightly fit against the previously installed shake. Edges that are cut must be painted with specified coating to ensure longevity. **All SmartBark™ products with cut edges or countersunk screws or attachments must be painted with Sherwin Williams Smokehouse #7040.**

SmartBark™ does not not warranty the installation of Smartbark. BarkClad recommends using a licensed and insured Contractor for all SmartBark installations.

CORNER TREATMENTS:

Both inside corners and outside corners require careful consideration to ensure an attractive,weather-tight finish. Corners can be boxed out in standard, wood trim pieces or shakes can be mitered to make a trim-less or wrapped corner. If using trim, paint or stain the trim prior to bark installation and caulk the joint between the bark and trim when installation is complete. Color variation can but rarely occur. If mitering for a trim- less or wrapped corner, alternate from which wall the bark fully extends to the corner. Make sure all corners are weather tight. SmartBark™ recommends caulking seams as practical.

COMMERCIAL AND RESIDENTIAL NEW CONSTRUCTION

All studs must be straight and true to avoid bulges or dips in the finished wall. Correct any bowed studs prior to installation if necessary. Sub-wall assembly must be weather tight before applying Smartbark™. Wall sheathing should be weather-resistant, or covered with a weather-resistant barrier such as fanfold insulation, house wrap, or building paper. Independent studies indicate that the combination of a weather resistant barrier plus a house wrap results in improved weather performance. Some building code jurisdictions are currently requiring this protection. Sheathing must be properly fastened to the framing according to building code requirements and/or the sheathing manufacturer's recommendations. Smartbark™ should be applied over a sheathing that provides a smooth, flat, solid, non-expansive, stable surface. Flashing and caulking should be added as needed in such areas that transition from Smartbark™ to other siding products, windows, and doors to control moisture and protect the sub-wall assembly.

REMODEL AND EXISTING STRUCTURE PROJECTS

Secure or remove any loose siding material and replace any rotten wood. Scrape off loose caulk and other build-up that may interfere with the SMARTBARK™ installation. Remove all items such as downspouts, light fixtures, vents. etc. in the area to be covered. Install suitable sheathing, as needed, to provide a smooth, flat, and stable surface for the installation of SMARTBARK™panels. See above information in the New Construction section for additional instructions on sub wall protection and flashing. RECOMMENDATIONS FOR MASONRY STRUCTURES A smooth, flat, stable surface is required for proper installation of SMARTBARK™. Concrete, cinder or brick walls may need filling unless they are already in a smooth and flat condition. Uneven walls may require furring strips to provide a flat surface. When applying SMARTBARK™ directly to concrete, cinder, or brick walls, the use of concrete screws (such as Tapcon™) is recommended.

FYI

Closed Cell Polyurethane has minimal expansion and contraction, it is recommended to allow acclimation for 24 hours minimum prior to installing.

Never leave cut edges of Smartbark™ exposed as the Polyurethane will discolor with exposure to sunlight. Use recommended Sherwin Williams Resilience or better exterior paint grade to cover cut and countersunk attachments, screws, etc. Recommended color- Smokehouse #7040 for most product lines

Quality colored deck screws or colored steel screws are recommended. Follow the diagram page 1 of this guide for facial screw requirements.

PL Premium Construction Adhesive is recommended if adhesive is used.

Smartbark™ panels can be installed onto any substrate including concrete and brick. Concrete screws and pre-drilled holes are recommended.

Smartbark™ is made from polyurethane and designed for a quick easy installation requiring fewer steps. It is recommended to use a licensed general contractor and installers review applicable building codes for specific products and/or geographic areas. This Smartbark™ installation guide guide and material is not intended to provide specific advice, legal or otherwise, on particular products or processes. Readers should consult with their own legal and technical advisors, suppliers, and other appropriate sources including but not limited to product or package labels, technical bulletins and sales literature that contain information about known health and safety risks. Smartbark™ does not assume any responsibility for the users non-compliance of applicable laws and regulations.