

# EXPANSION JOINTS

## Joint Treatments in SUNDEK Applications

Expansion joints critical to concrete construction. Proper installation allows concrete, during the curing stage, to find stress relief points. Without these points, concrete will crack at random.

SUNDEK honors the joints to allow proper deck movement and prevent chipping of the coating.

### Timing

Typical concrete construction joints are cut with grooving tools during the finish stage. After the concrete sets, a wet cut saw is required.

### Spacing

Space expansion joints, tooled or sawed, (in feet) no more than 2-3 times the slab thickness (in inches). A 4 inch slab with wire reinforcement should have joints a minimum of 8-12 feet apart.

### Depth

Joints are cut 1/4 of the depth of the slab. A 4 inch thick slab should have joints 1 inch deep. Joints cut more than 1 inch in depth require rebar reinforcement between the two slabs to prevent future movement.

### Placement

Joints should be planned ahead of time, correctly placed in an equally spaced pattern. They are most important at any right angles in the concrete slab.

*Plan joints in advance and ensure they are evenly spaced. For new concrete to receive a SUNDEK application, full consideration should be given to coincide with any patterns or designs. In this process, saw cut are preferred. Not sure? Consult your SUNDEK Representative for additional information on joint placement.*

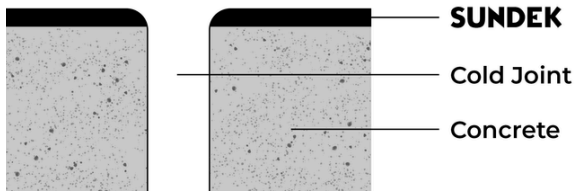
## How SUNDEK Treats Expansion Joints

Expansion joints **are not** covered, filled in, or closed up during a SUNDEK installation. The joints will remain the same width and depth while being treated.

Only the finish coat system may be applied on the joint treatment to match the SUNDEK coating.

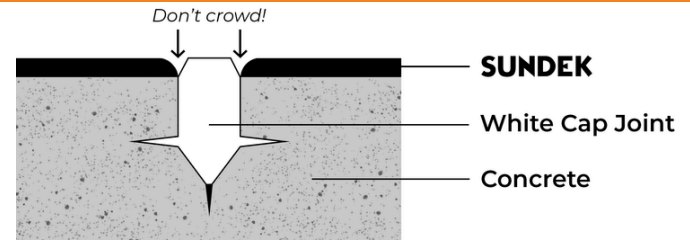


## Cold Joint or Saw Cuts



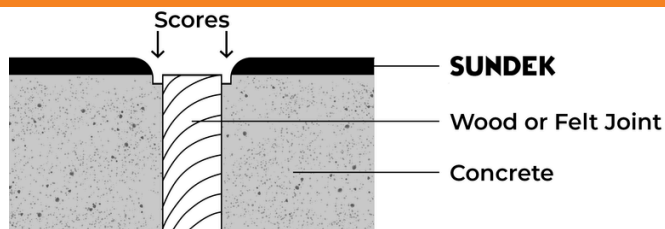
Where two pieces of concrete meet, regardless of size and shape. Joint is re-scored all the way through then may be left open, flexible mastic or urethane installed, then finish coated.

## White Caps



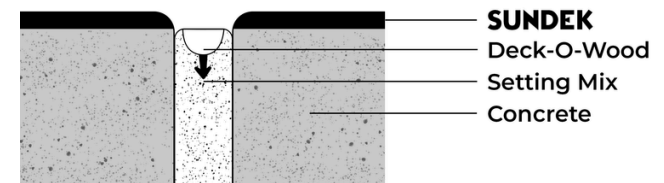
SUNDEK is feathered down to the edge of the white cap or 1/2 inch plastic place joint allowing some relief at the edge. The PVC white cap is left exposed, no mastic needed. May be finish coated.

## Wood or Felt Joints



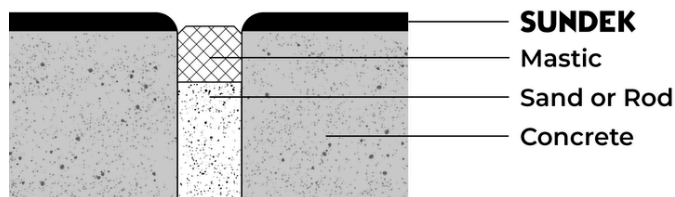
Typically 1 1/2 inch - 1 5/8 inch (2x4) place joints or 1/4 inch bender board. SUNDEK is feathered down into the edge and rescored at both sides to ease SUNDEK away from wood and concrete juncture. May be urethaned at scores but should not be finish coated.

## Deck-O-Wood



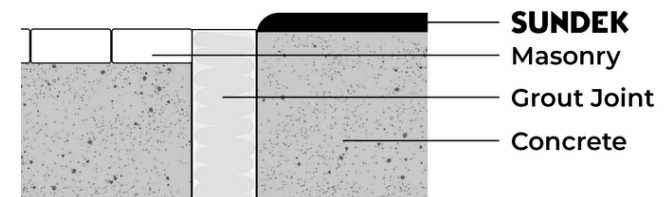
Plastic 1 1/2 inch wide joint used to replace old wood joints. Joint area is cleaned then filled 1/4 inch from the top with a setting mix. Joint is inserted into mixture, flush with the deck. SUNDEK is feathered into the edge of the joint.

## Typical Joint Treatment



SUNDEK is feathered into the edge of the mastic. If being replaced, new mastic is installed after the SUNDEK application. Joint is filled with silica sand or backer rod (depth must be equal to the width). Mastic is never installed wider than 1 inch.

## Hand Laid Masonry Place Joints



Place joints for brick, tile, stone, flagstone, etc. Masonry and grout joints are not covered, instead SUNDEK is feathered into the edge of the grout joint leaving grout-concrete juncture free.

*Diagrams are not drawn to scale.*