



HOW-TO GUIDE

Sikaflex[®] Hybrid NS 50

MULTIPURPOSE • HYBRID, NON-SAG, STP SEALANT • FAST CURING • UV RESISTANT

MATERIALS:

- Safety glasses and gloves
- Standard caulk gun
- Sikaflex[®] Hybrid NS 50 cartridge
- Utility knife
- Small spatula or caulking knife
- Sika[®] Backer Rod (optional)
- Masking tape (optional)

SITE PREP & PROCEDURE

1. All joint surfaces must be clean, sound, free of contaminants, dust free, dry and frost free. Interior joint contact surfaces must be free of previous joint sealing materials, oils, grease, loose tar, paints, coatings, sealers, curing compound residues, rust and any other foreign matter that might prevent good adhesion. Asphalt substrates should be prepared to clean, sound, dust free, dry, and frost free conditions. Concrete substrate preparation should be accomplished by mechanical means (e.g. sandblasting, abrasive grinding, etc.). Mask off and protect any adjacent surfaces (e.g. edges of joint) that should not receive contact with Sikaflex[®] Hybrid NS 50.
2. Closed cell backer rod or bond breaker tape must be installed at the bottom or base of a dynamically working joint prior to sealant installation to prevent three sided adhesion. Closed cell backer rod diameter should be larger (i.e. typically up to 25% larger) than the actual width of the joint to provide a friction fit and adequate sealant support. Bond breaker tape, when used in lieu of closed cell backer rod, should cover the bottom or base of the joint void. Proper joint design for working joints is 2:1 width to depth ratio (typical), with a recommended minimum 1/4 inch (6 mm) and maximum 1/2 inch (13 mm) depth of sealant. For non-moving joints, the width to depth ratio can vary. For traffic bearing joints, the maximum recommended 1/2 inch (13 mm) depth of thickness should be considered over appropriate closed cell backer rod or bond breaker tape.
3. The optimal temperature range for application is between 60°F and 80°F, however applications can be done between 35°F-100°F. Lower temperature applications, 35°F to 60°F will extend the curing time, to ease the flow and placement of sealant, warm and keep the sealant at 70°F 24 hours prior to application. In the case of cold weather applications, make sure to remove dew, frost, or ice from the substrate with acetone on a clean cloth and place sealant immediately.
4. Unscrew the nozzle, cut plastic tip of cartridge, then reattach the nozzle onto the cartridge.

5. With the nozzle reattached to the cartridge, cut the end of the nozzle to match the width of the joint. It is recommended to use a high-quality gun with an 18:1 thrust ratio to facilitate smoother and more efficient flow of the material.
6. Position the nozzle at the bottom of the joint or designated application area to prevent the entrapment of air during placement. Keep the nozzle immersed in the material throughout the application process. Apply the sealant with consistent pressure, ensuring a uniform and continuous bead. Care should be taken to maintain a smooth application process. If tooling, or smoothing, of the sealant is necessary, it should be performed within 15 minutes of application.
7. Remove excess material using acetone and disposable paper towels or cloth rags before the material cures on placement tools and adjacent surfaces. Dispose of waste material in compliance with local regulations.

