

TECHNICAL BULLETIN

TARGET MARKET ROOFING



BUILDING TRUST



Subject: Water Based Adhesives - Application Method for Steep Slopes

14-06

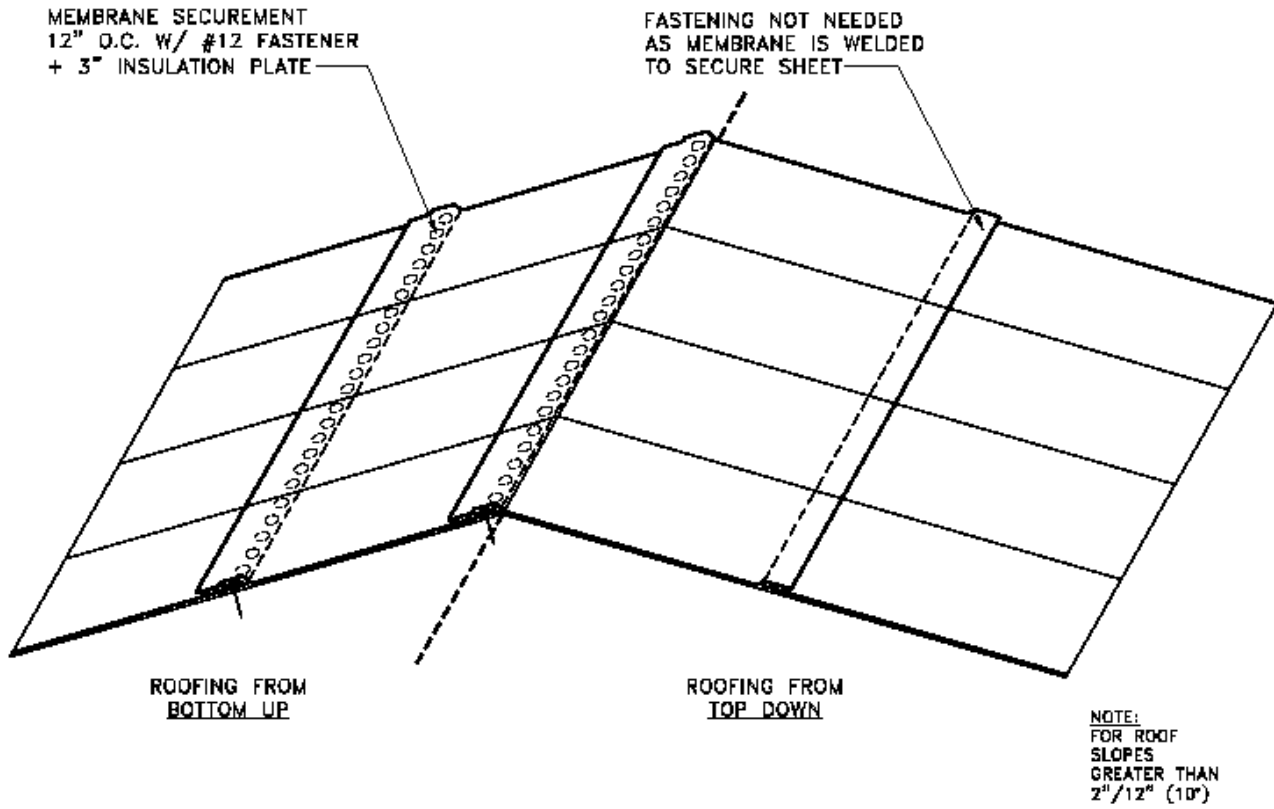
When local codes or regulations mandate the use of low VOC (less than 250 grams per liter) adhesives, Sarnafil® and Sikaplan® Water Based adhesives may be used on slopes greater than 2"/12" with prior approval from Sika Corporation – Roofing (Sika). Due to the slower drying time of water based adhesives, it will be necessary to mechanically secure the membrane to prevent it from moving while the adhesive dries completely.

Upon review of the roof layout, substrate, location, building height etc., specific fastening enhancements will be determined by Sika. Fasteners must be installed in such a manner as to prevent membrane slippage during the adhesive drying process. This will typically involve installing membrane parallel to the roof slope and installing fasteners in the end laps immediately after laying into the wet adhesive. When possible, membrane layout should be done in such a manner that succeeding sheets can be welded onto already fastened sheets eliminating the need for cover strips. The end laps are fastened 12 inches on center with #12 screws and in seam or insulation plates. Wherever possible, the membrane should be laid out in shingle fashion in such a manner that will avoid back water laps.

The attached drawing shows an example of a typical gable end roof with a 5"/12" slope. Membrane sheets are installed parallel with the roof slope. If roofing from the bottom up, the top end lap of each sheet will require fastening. If roofing from the top down, only the very top sheet needs to be secured as successive sheets can be immediately welded to a higher, secure sheet preventing it from slipping. Leave sufficient end lap area of top sheet free of adhesive so bottom sheet can be placed underneath to eliminate back water laps. When possible, install roofing from the top down as less fastening will be required. It is not required to have fasteners in all end laps but only where necessary to prevent slippage and simplify the installation process. See attached detail.

Installation tips when using Sarnafil and Sikaplan Water Based adhesives on steep slope applications:

- When feltback membrane is used, securement is provided by butting the end laps, fastening both sheets at the end laps and overlaying fasteners with an 8" cover strip.
- Please contact Sika Sarnafil's technical department before using Sarnacol 2121 on Décor projects.
- Precautionary measures must be taken to avoid exposing water based adhesives to low temperatures. Sarnafil and Sikaplan Water Based adhesives may only be used **when temperatures are 40°F (5°C) and rising** and **should not be used when temperatures are expected to fall below 40°F (5°C) during the initial curing period of 72 hours.**



MEMBRANE SECUREMENT