

KBP#131-200901

Sealant Use with Driwall Fluid Applied AWB Systems

Sealants are an important part of a wall system. Professionally installed, they provide a long lasting watertight seal between our walls and the window, door, or other item they seal. Since the sealant usually bonds to two different substrates, you need to check to see if the sealant is approved for both.

Exterior Insulation and Finish Systems

Exterior Insulation and Finish Systems (EIFS) sealants must be low modulus (stretchy) and of a high quality. They are usually available from specialty distributors and list EIFS as an approved substrate. They should meet ASTM C920. Currently two types are commonly used, silicone and two-part polyurethane.

Stucco, Direct Applied and Other Wall Cladding Systems

Stucco systems may benefit from a low modulus sealant, but a more durable sealant can also be used. Common types include silicone, acrylic and polyurethane. Typically, the sealant joint width is usually less than EIFS and many more manufacturers approve stucco, masonry, or concrete as a substrate. Check with your selected manufacturer to confirm that the sealant is approved for stucco.

Driwall Fluid Applied AWB

Interior sealants for Driwall Fluid Applied AWB applications are generally polyurethane. For a flexible seal a one-part product is used to form the interior seal to the penetrating item while a minimal expanding polyurethane foam can be used to insulate and seal.

Sealant Bond

For EIFS applications the sealant needs to bond to cured base coat with no mesh pattern visible. The surface needs to be as smooth as possible for best bond. Driwall Fluid Applied AWB or Finish may be applied into the joint surface for color consistency in the project, but the texture must be removed.

When accessories are used with EIFS, Stucco, Direct Applied Systems, or other Wall Claddings the accessory needs to be clean and dry.

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Sealant Use and Types

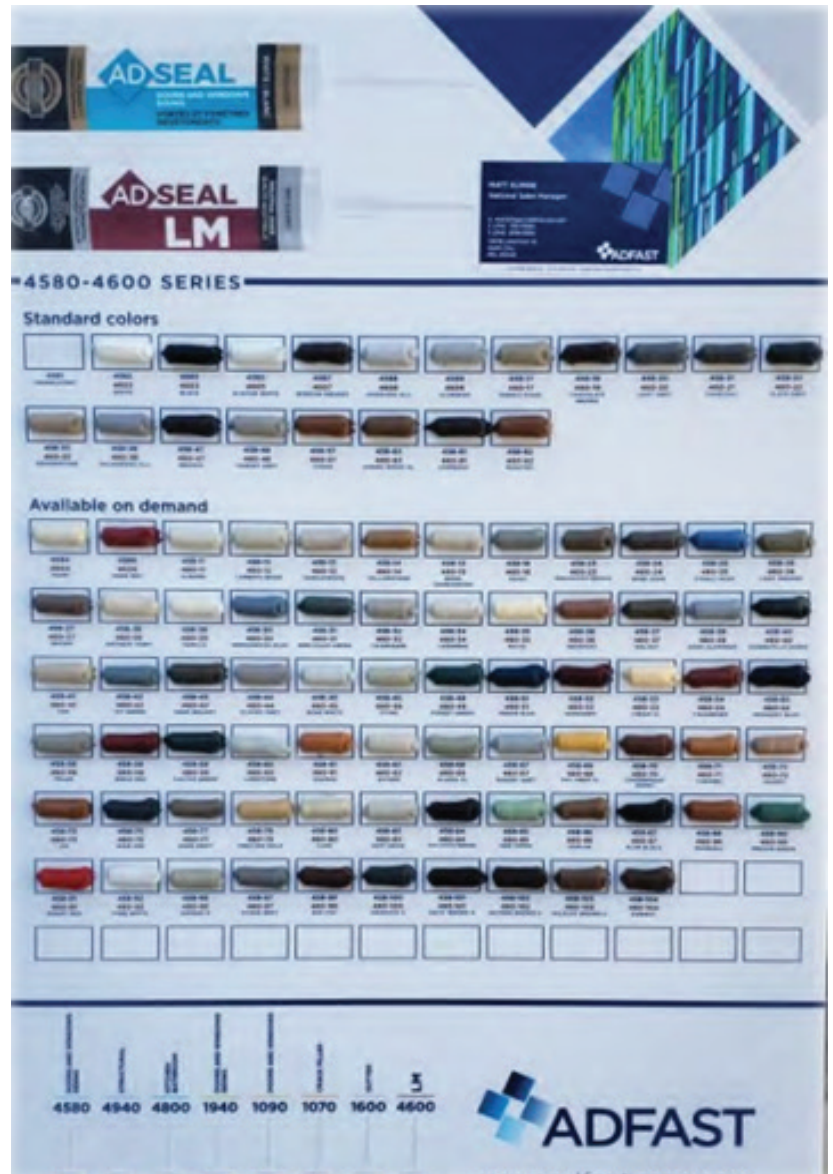
The user, subject to the sealant manufacturer's recommendations, usually determines approval of sealants for a particular use. Check with the sealant manufacturer prior to using sealants on Keene Driwall Fluid Applied AWB.

The Sealant Waterproofing & Restoration Institute (SWRI) has publications available on the use and installation of sealants, 816-472-7974 or www.swrionline.org.

Sealant Types

Polyurethane: A one or two-part structural adhesive with excellent flexibility and durability. Cure requires a catalyst, heat, or air evaporation. Short shelf life with hydroscopic tendencies (water absorption). Excellent for where flexibility is required. Good for bonding plastic substrates. Generally slower cure with more complicated handling and curing procedures. Polyurethane sealants are generally less UV resistant but are paintable.

Manufacturers are steadily improving sealant color options.



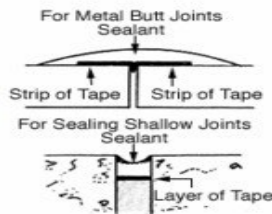
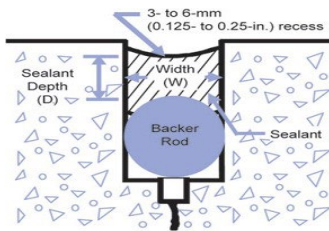
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Silicone: Any member of a family of polymeric products whose molecular backbone is made up of alternating silicon and oxygen atoms and which has pendant hydrocarbon groups attached to the silicon atoms. (color chart courtesy Adfast Corp.) Used primarily as a sealant, silicone is known for its ability to withstand large variations in temperature (-100°F to +600°F). Silicone is reliable and is relatively easy to handle with good UV resistance but tends to retain dirt on the surface and is not paintable. Sealant colors have generally been limited but some companies have been increasing the amount or offering custom color matching.

Backer Rod - Closed cell backer rods are recommended for EIFS installations and perform better in all installations. The backer rod should be approved by the sealant manufacturer.

Backer rods can vary from foam rods to triangular backer rods for fillet-type sealant joints. Joints that lack depth for backer rods can use bond breaker tape.



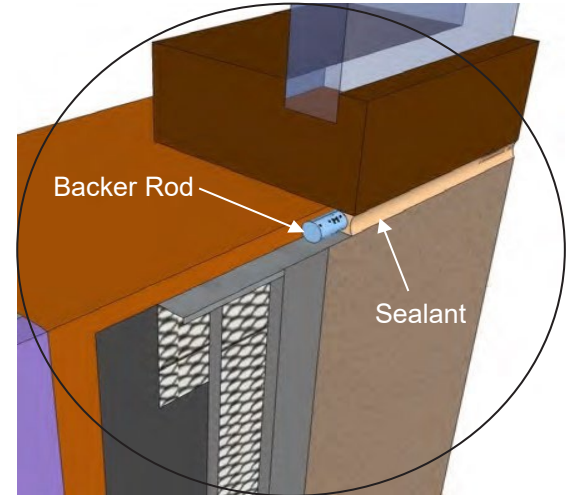
Backer Rod, Bond Breaker Types and Tools
(Courtesy Demand Products and CR Laurence)

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Stucco, Direct Applied Finish and other Wall Cladding Systems

Cement Stucco
 Stucco Cement Board Coatings
 Insulated Concrete Forms (ICF)
 Uninsulated Finish Systems (Direct Applied)
 Other Wall Claddings



These systems offer more latitude with sealant selection and include all the EIFS sealants as well as one-part polyurethane sealants or any other sealant recommended to bond one surface to another. Sealants are sized per the architectural documents with 3/8" (9.5 mm) minimum at windows and doors and 3/4" (19 mm) for where the system ends, or movement is anticipated.

Company	Sealant	Type	Movement	Primer
Adfast Corp.*	Adseal DWS 4580 Series	S	+50, -50	Adseal Primer MK60095
Dow Corning	Contractors Weatherproofing Sealant	S	+25, -25	Verify with manufacturer
Sika	Silaflex 15 LMτ	P	+100, -50	429 Primer
Sika	Silaflex-2C NSτ	P	+50, -50	429 Primer
Sika	Sikasil® WS-290	S	+100, -50	Primer 2100 if recommended
Master Builders Solutions	MasterSeal NP1	P	+25, -25	#733 or 766 (verify)
Master Builders Solutions	Sonolastic 150 VLM	S	+100, -50	Primer 2000 (verify)
Tremco	Dymonic 100	P	+50, -50	Tremprime®

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