



AQUASEAL USA, INC.

Gray-Coat, Eco-Flex and Eco-Flex ASF Exterior Waterproof Membranes for ICF and Standard Construction

Installation Instructions

Aquaseal's Gray-Coat, Eco-Flex and Eco-Flex All Season Formula (ASF) come ready to use and do not require any priming, but the products should be stirred prior to use. For best results the air temperature should be above 35F. However, Eco-Flex ASF can be applied in temperatures as low as 20F and Gray-Coat can be applied in temperatures as low as 10F. It is important that no precipitation is forecast for at least 24 hours after application to allow the product to fully cure. The products can be applied using an airless sprayer (*see below for sprayer specifications), roller or brush and it is important to achieve a smooth, seamless application to guarantee that the cured membrane is impermeable.

1. Remove any construction materials or debris from the application area; wash application surface to remove all dirt, dust or any loose material that will interfere with the adhesion of the liquid membrane to the substrate.
2. For ICF construction, fill any joints in the blocks or small indentations by taking a wallpaper brush (or similar) and dabbing a small amount of the product into the indentation to make the surface as smooth and even as possible. Any large cracks or voids should be filled with PU foam. When foam is cured it should be cut, trimmed and sanded.
3. On concrete or block foundations remove any excess lumps of material and ensure the coverage area is smooth and even and that all honey-combing, large voids and tie holes have been properly filled with non-shrink grouting material. The product can be applied directly onto the surface, including 'green' concrete, without the need for a parging coat. When waterproofing old foundations there is no need to completely remove any old existing material such as tar, but the surface should be power washed to remove any old loose material that could affect the new product sticking to the wall.
4. As Eco-Flex, Eco-Flex ASF and Gray-Coat are water-based products, the application surface need not be completely dry before the product is applied.
5. Commence spraying or rolling at the top of the foundation, moving in a back and forth motion over an area approximately 4' wide. Continue working down the wall in this manner, ensuring that the coverage is as even as possible. Make sure that the product overlaps the footing, applying plenty of product in this area, as this will ensure a good seal.
6. The preferred method is to apply two thin coats as opposed to one thick one, building up to a wet thickness of 60mil which will cure to a 40mil finished coat. The second coat should be applied in the opposite direction to the first, i.e. in an up and down motion. Application of the second coat can commence as soon as the first has dried to tack free touch.
7. Where exterior finishes or parging will meet the waterproofing at the top of the foundation, it is advisable to plan for an overlap of at 2" - 4" above grade. (Any waterproofing exposed to view can be painted over with 2 coats of latex paint if desired)
8. Depending on the air temperature the membrane will be fully cured within 12 to 24 hours. It is very important to keep the freshly applied membrane dry as moisture can affect the curing or damage the product.

9. Backfilling can commence after the 24 hour curing period. Backfill material installed against the cured membrane must be free draining and free of sharp debris which can puncture or damage the membrane.
10. The use of a protective drainage board or wrap is not required on ICF, poured concrete or parged block foundations providing the backfill material is of good quality with no sharp rocks, and backfilling is done with care so as not to damage the cured waterproofing membrane. However, if the building is located in an area with a high water table or poor draining soil such as clay, or in areas that might experience periodic flooding, or be subject to seismic activity, then Aquaseal recommends that a protective wrap such as our Aqua-Wrap, or a dimpled protection board, be installed as added protection. In addition, some local regulations can require the use of drainage/protection or insulation board, so check with your local Building Department.
11. On unparged block foundations the use of either Aqua-Wrap or a dimpled protection board, in addition to one of our waterproofing membranes, is required in order to validate the 30 year product warranty.
12. When using Aqua-Wrap* or polystyrene protection/insulation boards, Eco-Flex, Eco-Flex ASF or Gray-Coat can be used as an adhesive to help hold the wrap or boards in place until backfilling. Allow the applied product to become tacky (how long this takes will depend on the air temperature, but it should be between 30 minutes to an hour).and then press the wrap or boards against the newly applied membrane, using gentle pressure so as not to damage the waterproofing membrane underneath. Large size boards will require bracing with a 2" x 4" to stop the weight of the board from pulling away from the wall.

*Note: When using Aqua-Wrap, condensation will form under the wrap once it is applied against the waterproofing membrane. This is normal and is just moisture evaporating from the waterproofing. It is not necessary to wait for this to dissipate before backfilling, as the product will continue to dry even after the foundation is fill in.
13. Gray-Coat, Eco-Flex and Eco-Flex ASF can be cleaned up with water prior to curing, but dried product needs to be removed with mineral spirits.

* The airless sprayer needs to be a commercial grade of machine designed for spraying elastomeric or gypsum type products (a paint sprayer is NOT strong enough). The machine should have a range of 1500-3000psi and pump approximately 1.25 gallons per minute. A tip size of .029 to .035 is recommended, but a heavy duty texture gun works well with Eco-Flex. As an example, the Graco GMAX 7900 is a popular machine with many people who apply our products, or a similar size of machine from Graco's UltraMax line of sprayers.