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6.01.1 General

- A.** This section will outline the key aspects of IKO's accessories used in conjunction with building envelope and foundation waterproofing products.
- B.** The use and installation information provided shall be considered in conjunction with the General Requirements in Part 2 of this manual. Suitability of product use and building envelope design is the responsibility of the architect, building designer, contractor and/or building owner.
- C.** As a general rule/requirement, when using any of IKO's sealants, mastics, primers or adhesives, all substrates should be clean, dry and free from dust, dirt, oil and grease.
- D.** Read and follow all label instructions regarding storage and handling, use and proper cleanup and disposal procedures for all products.

6.02.1 Mastics and Sealants

- A.** IKO produces carefully engineered mastics and sealants, which are designed to seal corners, edges and other detail areas and penetrations.
- B.** IKO MS Detail is a VOC-free, solvent-free liquid-applied membrane coating that serves as an excellent waterproofing option for hard-to-reach wall and foundation areas. It cures as a result of a chemical reaction with the ambient humidity to become a tough, waterproof membrane.
- C.** IKO MS Detail is available in either 3.78L pail, consisting of 12 sausages of 315ml or a box containing 4 2L pouches.
- D.** IKO MS Detail can be applied by brush, trowel, roller or sausage caulking gun. For cracks, gaps and voids exceeding one-eighth inch (1/8") (3 mm), it is recommended to use a woven reinforcement fabric and at least two coats of IKO MS Detail to bridge such gaps effectively. It sets up quickly and achieves full cure typically within twenty-four (24) hours.
- E.** For cleanup, wet material should be cleaned from tools and equipment immediately with mineral spirits or xylene. Once cured, there are no safe-to-use solvents. Dispose of contents/container at an approved waste disposal plant.

- F.** IKO AquaBarrier Mastic is available in three hundred milliliters (300 ml) (10.1 oz.) tube (24 per box), eight hundred twenty-five milliliters (825 ml) (27.9 oz.) tube (12 per box) or ten kilograms (10 kg) (22 lb.) pail. Conforms to the requirements of ASTM D 4586 and ASTM D 3409, and also meets Federal SS.C-153C, Type 1 specifications.
- G.** IKO AquaBarrier Mastic is a unique, modified asphalt sealant that is formulated with synthetic rubbers for longevity and glass fibers for extra strength. IKO AquaBarrier Mastic sealant is fully compatible with IKO waterproofing and air and vapour system products. It can be applied on damp or dry surfaces and will not slump or pull away from the substrate.
- H.** Areas of use include sealing terminations, sealing around penetrations and sealing membrane edges.
- I.** For cleanup, use mineral spirits. Dispose of contents/container at an approved waste disposal plant.

6.03.1 Primers and Adhesives

- A.** IKO produces a range of solvent-based and water-based primers and adhesives, in both conventional and low V.O.C. formulations.
- B.** IKO S.A.M. Adhesive (self-adhering membrane adhesive) is a surface conditioner where asphaltic self-adhesive membranes are applied. It is suitable for use on most substrates, including wood, glass mat/gypsum sheathing, masonry, concrete and metal. It provides excellent adhesion properties during the application process and is very effective on either horizontal or vertical surfaces. Actual drying time depends on the ambient temperature and humidity during application, but requires a minimum of thirty (30) minutes for flash off time.
- C.** IKO S.A.M. Adhesive is gold in colour and conveniently packaged in both seventeen liter (17 L) (4.49 US gal.) and three point five liter (3.5 L) (1 US gal.) pails.
- D.** IKO S.A.M. Adhesive may be applied by using a brush or a roller, or by mechanically spraying.
- E.** For cleanup, use mineral spirits. Dispose of contents and container in accordance with local, regional, national and international regulations.
- F.** Where required by construction specification or local codes, IKO offers the alternate IKO S.A.M. LVC Adhesive, which performs similarly, but has a lower volatile organic component (less than two-hundred fifty grams per liter (<250 g/L). The IKO S.A.M. LVC is green in colour. The LVC product is sold in seventeen liter (17 L) (4.49 gal.) containers only.

- G.** IKO Water-Based Adhesive is a water-based modified asphalt emulsion suitable for surface preparation prior to the installation of self-adhesive and heat-welded membranes. IKO Water-Based Adhesive dries to a high tack, providing excellent adhesion properties during the application process, and is especially effective on vertical and horizontal surfaces. Actual drying time depends on the ambient temperature and humidity level during application. IKO Water-Based Adhesive may be applied by using a brush or a roller, or by mechanically spraying.
- H.** It is suitable for application on most substrates, including wood, glass mat/gypsum sheathing, masonry, concrete and metal, and is available in both seventeen liter (17 L) (4.5 US gal.) and three point five liter (3.5 L) (0.92 US gal.) sizes.
- I.** Since the product is water-based, it must be protected from freezing, and application temperatures must be above five Celsius (5°C) (41°F).
- J.** For cleanup, use mineral spirits for cured films. Use water for uncured films. Dispose of contents and container in accordance with local, regional, national and international regulations.
- K.** IKO Mod-Bit Primer is a solvent-based primer and intended to prepare roofing and wall surfaces prior to applying heat-welded membranes. It is formulated with a rubber modified bitumen and fast-evaporating solvents for quick drying; enhances membrane adhesion to a variety of substrates, such as gypsum, masonry, metal, concrete or concrete block; and improves membrane performance over a wide range of temperatures and conditions.
- L.** IKO Mod-Bit Primer can be applied with a brush, roller or sprayer.
- M.** For cleanup, wash tools and equipment with mineral spirits, toluene, or xylene. Use caution when handling flammable materials. Dispose of contents and container in accordance with local, regional, national and international regulations.
- N.** IKO Spray Primer is a high-quality asphalt-based primer in an aerosol can. It is excellent for priming and sealing porous surfaces to improve bonding of asphalt-based materials and can also be used as a corrosion-resistant coating for metal. Can size is four-hundred eighty-two grams (482 g) (1 lb.) with twelve (12) cans packaged per case.
- O.** It can be used as a single coat when fast drying is needed to accelerate the installation process. May be used to prime and/or seal gypsum, masonry, metal, wood, concrete, asphalt and other similar substrates, especially in small detail areas.
- P.** For cleanup, wash thoroughly after use. Dispose of contents and container in accordance with local, regional, national and international regulations.

6.04.1 Backfill Protection

- A.** IKO has innovated and successfully marketed for many years an ideal below-grade backfill protection “board”. IKO Protectoboard is a versatile asphaltic cover board composed of a mineral-fortified asphalt core between two layers of high-strength reinforcing fiberglass mat. Protectoboard can be used as a protection board in the waterproofing of bridge and podium decks, vertical walls and parking garages. The product is available in a wide variety of lengths and thicknesses, including three millimeters (3 mm) (1/8"), four point eight millimeters (4.8 mm) (3/16"), and six millimeters (6 mm) (1/4").

6.05.1 Tapes and Flashing Membranes

- A.** For complete building envelope installation, various adhesive “tapes” (narrow widths of membrane) are required to cover insulation joints and wall/door junctions, and to complete through-wall drainage protection.
- B.** IKO’s AquaBarrier AVB Tapes are designed for use in conjunction with nonbreathable wall assemblies. Durable, reinforced and designed for versatility, IKO AquaBarrier AVB Tapes are made by integrally bonding high-density, cross-laminated woven polyethylene film to SBS modified rubberized asphalt. They can be used on various substrates, such as gypsum, concrete block, concrete or wood. They are cold-applied and self-adhering, providing superior performance for critical flashing areas where protection from air, water and moisture is required.
- C.** IKO AquaBarrier AVB Tapes are manufactured in roll lengths of seventy-five feet (75') (22.86 m). Widths of three inches (3") (75 mm), four inches (4") (100 mm), six inches (6") (150 mm), nine inches (9") (225 mm) and twelve inches (12") (300 mm) are available and are manufactured to a nominal thickness of forty (40) mils (1.0 mm). In select market regions, for light commercial and residential applications where a less-robust tape may be required, IKO AquaBarrier AVB Tapes are available in a thinner 25-mil (0.63-millimetre) thickness. Contact the IKO Technical Services Department for further information.
- D.** As with IKO AquaBarrier AVB full-width membranes, substrates must be primed with either IKO S.A.M. or IKO S.A.M. LVC Adhesive, or IKO Water-Based Adhesive prior to application of the tape.

- E.** IKO AcrylicStick SA Tapes are designed for use in conjunction with non-breathable wall assemblies. Durable, reinforced and designed for versatility, IKO AcrylicStick SA Tapes are made by integrally bonding high-density, cross-laminated woven polyethylene film to an acrylic adhesive compound. They can be used on various substrates, such as gypsum, concrete block, concrete or wood. They are cold-applied and self-adhering, providing superior performance for critical flashing areas where protection from air, water and moisture is required.
- F.** IKO AcrylicStick SA Tapes are manufactured in roll lengths of seventy-five feet (75') (22.86 m). Widths of four inches (4") (102 mm), six inches (6") (152 mm), nine inches (9") (229 mm), twelve inches (12") (305 mm) and eighteen inches (18") (457 mm) are available and are manufactured to a nominal thickness of ten (10) mils (0.25 mm).
- G.** IKO AquaBarrier VP Tapes are self-adhering, primerless, vapour-permeable tapes, providing superior performance in wall assemblies where vapour-permeable, weather-resistive air barrier tapes are required.
- H.** IKO AquaBarrier VP Tapes are polyolefin synthetic polymer (fiber) narrow membranes with low water retention capacity and therefore mold- and mildew-resistant.
- I.** IKO AquaBarrier VP Tapes are sold in rolls, one hundred feet (100') (30.5 m) long. Available widths include four inches (4") (102 mm), six inches (6") (152 mm), nine inches (9") (229 mm), twelve inches (12") (305 mm) and eightenn inches (18") (457 mm).
- J.** The product has a nominal thickness of sixteen mils (16 mils) (0.4 mm).
- K.** IKO AquaBarrier VP Tapes are typically installed in conjunction with a breathable insulation, such as IKO Ener-Air such that the wall assembly can dry via the free movement of vapour to the exterior.
- L.** Priming is generally not required for IKO AquaBarrier VP Tapes.
- M.** IKO AquaBarrier TWF Through-Wall Flashing is a cold-applied, self-adhering sheet membrane designed for use as a through-wall flashing system. It is made by integrally bonding a high-density cross-woven film to SBS modified rubberized asphalt with a robust, puncture-resistant facer. IKO AquaBarrier TWF is ideal for more demanding applications where higher tensile and puncture resistance are required.
- N.** IKO AquaBarrier TWF membranes are manufactured in roll lengths of seventy-five feet (75') (22.86 m). Widths of twelve inches (12") (305 mm), eighteen inches (18") (455 mm), twenty-four inches (24") (610 mm) and thirty-six inches (36") (914 mm) are available and are manufactured to a nominal thickness of forty (46) mils (1.2 mm).
- O.** IKO AquaBarrier TWF is used in adhered transition-flashing applications (floor-to-wall and foundation-to-wall transitions, balcony shelf, etc.) directly over masonry, concrete, gypsum, wood or metal substrates, which have been properly prepared with IKO S.A.M. Adhesive or IKO S.A.M. LVC Adhesive, or other IKO-approved product.