



AIR BARRIER CAPABILITIES SYSTEMS AND SOLUTIONS

SikaSmart® BUILDING ENVELOPE SYSTEMS & SOLUTIONS

BUILDING TRUST



AIR BARRIER CAPABILITIES

BACKGROUND

- Buildings consume more than 70% of our nation's electricity.
- The use of an air barrier can save as much as 40% in a building's energy usage.
- Water intrusion and building deterioration remains the #1 concern for designers and building owners.

KEY OBJECTIVES AND CONSIDERATIONS OF AN AIR BARRIER

- Keep water out
- Maintain a comfortable interior environment
- Energy efficiency
- Building Codes now require a continuous air barrier to control air leakage
- Compatibility from one building element and material to the next

SYSTEM APPROACH

- ABAA listing as an assembly
- A rigorous compatibility test program ensures our products function together, especially at critical transitions and penetrations like roof - air barrier, air barrier - window sealant and flashing



SikaSmart™
EXPERT SOLUTIONS FOR THE BUILDING ENVELOPE

SikaSmart® BUILDING ENVELOPE SOLUTIONS

- Much more than an air barrier assembly, Sika offers solutions for the entire building envelope
 - Roofing
 - Exterior Walls & Windows
 - Balconies
 - Interior & Mechanical Spaces
 - Plaza Decks
 - Parking Garages
 - Below Grade



ASTM 2357 Test Panel - Detailing



ASTM 2357 Test Panel - Completed



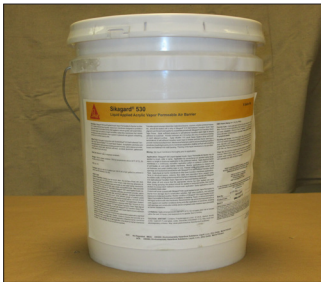
Application of Sikagard® 535

SYSTEM SOLUTIONS



Sikagard® 535 – LIQUID-APPLIED, ACRYLIC VAPOR PERMEABLE AIR BARRIER

- Evaluated by the Air Barrier Association of America (ABAA)
- Passes ASTM E 2178 Air Permeance
- Passes ASTM E 2357 System Air Leakage test
- Passes ASTM E 331 Water Penetration Test
- Evaluated for use in NFPA 285 assemblies



Sikagard® 530 – LIQUID-APPLIED, ACRYLIC, VAPOR-PERMEABLE AIR BARRIER

- Evaluated by the Air Barrier Association of America (ABAA)
- Passes ASTM E 2178 Air Permeance
- Passes ASTM E 2357 System Air Leakage test
- Evaluated for use in NFPA 285 assemblies



Sika® Membran 540 or Sika® MultiSeal® 515 – SELF-ADHERED TRANSITION TAPE

- Copolymer adhesive with conformable polypropylene facer (Sika® Membran 540)
- Synthetic butyl rubber adhesive with a polyester facer (Sika® MultiSeal® 515)
- Transition membrane for details and terminations such as windows, doors, outside corners and penetrations
- Excellent adhesion properties
- Flexible at low temperatures



Sika® MultiSeal® Plus – SELF-ADHERED FLASHING

- Butyl rubber adhesive with a TPO facer
- Through-wall and shelf angle flashing



Sikaflex® 11 FC – POLYURETHANE, ELASTOMERIC SEAM SEALER

- Substrate joint treatment and termination mastic
- Very fast tack-free cure (may be coated in 4 – 6 hours)
- Excellent weathering and water resistance

SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION:



WATERPROOFING



CONCRETE



REFURBISHMENT



SEALING AND BONDING



FLOORING



ROOFING

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