

Parex USA

Masonry Veneer Systems

1. Product Name

EPS BASECOAT & ADHESIVE

2. Manufacturer
 Parex USA, Inc.
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3. Product Description
 Basic Use: EPS Basecoat & Adhesive is used to adhere and coat EPS continuous insulation sheathing as part of the Parex USA MVS-Ci System. This specialized EPS coating creates an energy efficient wall substrate suitable for the application of manufactured masonry veneers.

Uses: EPS Basecoat & Adhesive is the first premium grade EPS base coat designed specifically for the Parex USA MVS-Ci wall system. The MVS-Ci wall system offers superior energy efficiency with the aesthetics of full masonry veneer cladding or in conjunction with other Parex USA finishes.

Advantages

- Combines Continuous Insulation with manufactured masonry veneers
- Fire Tested Performance
- Proven Wall Technology
- Commercial or Residential

4. Technical Data

Suitable substrates for adhering EPS:
 Exterior grade gypsum sheathing
 Glass mat gypsum sheathing
 Masonry, concrete and cement board

Composition:

Binder base: 100% acrylic polymers, compatible with portland cement
 Water based: VOC compliant
 Color: Light gray

Working Time:

Pot life is 1-2 hours after cement has been added. Pot life time is affected by humidity and temperature.

Drying Time:

Full adhesive bond strength is reached after 1-4 days, depending on humidity and temperature. Product drying time is within 24 hours under conditions [70°F (21°C), 50% RH]. Cold and/or humid weather may extend drying time. Parex USA Accel-Pak may be added to decrease drying time, see data sheet for more information.

Packaging: 55 lb. (25 kg) net weight in plastic pails.

Storage – Protect from direct sunlight and freezing at all times. Do not stack more than 3 pails high

Shelf Life: Reference Parex USA Expiration Date of Products Technical Bulletin

5. Installation

Surface Preparation: Remove surface contaminants such as dust or dirt without damaging the substrate.

- Planar irregularities are limited to 1/4 in. (6mm) in a 4 ft. (1.2 m) radius. Surface irregularities are limited to 1/4 in. (6mm) or less for masonry and concrete and 1/8 in. (3mm) or less for sheathing.
- Irregular and uneven surface should be filled with this product prior to applying as the Adhesive.
- Painted substrates must have the paint removed by methods which result in no more than 10% of the remaining surface having paint.
- For additional options for surface preparation, contact Parex USA Technical Services Department.

Mixing: Use clean equipment for mixing and preparation.

- Thoroughly mix one 55 lb. (25 kg) EPS Basecoat & Adhesive pail with up to 1 gal. (3.8L) of cool, clean potable water, using a heavy duty 1/2 in. (13mm) drill with a rust-free paddle at 400-500 rpm. Split evenly into two buckets.
- Pre-measure 55 lb. (25 kg) of portland cement. Add half of the portland cement, 27.5 lb (5.67 kg) to each bucket as described below.

TEST	METHOD	CRITERIA	RESULTS
Abrasion Resistance*	ASTM D968	No cracking or loss of film integrity at 528 quarts (500 L) of sand	Pass: 1000 Liters
Accelerated Weathering*	ASTM G153 (ASTM G 23)	No deleterious effects at 2000 hours when viewed under 5x magnification	Pass: 5512 hrs
Fungus Resistance	MIL STD 810B		28 days: no growth
Freeze/Thaw Resistance*	ASTM E2485	No deleterious effects at 10 cycles when viewed under 5x magnification	Pass: 60 Cycles
Impact Strength	EIIMA 101.86 / ASTM E2486	Standard Impact	Pass with Standard Mesh, Higher Impact Ranges per Mesh
Mildew Resistance	ASTM D3273	No growth supported during 28 day exposure period	Pass: 60 Cycles
Water Penetration	ASTM E 331	No water penetration beyond the plane of the Basecoat/ EPS board interface after 15 minutes at 6.24 psf (299 Pa)	Pass: 12 psf for 45 minutes
Moisture Resistance	ASTM D2247	No deleterious effects at 14 day exposure	Pass: 28 days
Salt Fog Resistance*	ASTM B117	No deleterious effects at 300 hours	Pass: 600 hrs
Surface Burning Characteristics	ASTM E84	< 25 Flame Spread < 450 Smoke Developed	Flame Spread : 5 Smoke Developed : 5
Tensile Adhesion (psi)	ASTM C297	> 15 psi or no failure of adhesive	Concrete Block: 51 psi Gypsum Sheathing: 33 psi EPS Board: 41 psi Dens-Glass® Gold: 35 psi
Water Penetration	ASTM E 331	No water penetration beyond the inner-most plane of the wall after 2 hours at 299 Pa (6.24 psf)	Pass
Water Vapor Transmission	ASTM E 96 Procedure B	Vapor Permeable	Permeable
Wind-Driven Rain	F.S. TT-C-555B		24Hrs: No penetration of water

*Tested with Parex USA Reinforcing mesh and DPR Finish Coat

- While stirring the EPS Basecoat & Adhesive, add small amounts of portland cement in increments to obtain a final ratio of 1:1 by weight, EPS Basecoat & Adhesive to portland cement.
- A small amount (maximum 16 oz. (0.47 L) of cool, clean potable water may be added to adjust workability.
- Let the mixture stand for five minutes after initial mixing, then stir again, re-tempering once only as needed for workability.
- EPS Basecoat & Adhesive should be used immediately after tempering. Keep container closed when not in use.
- Half batches may be mixed for convenience.
- Only Parex USA approved additives can be added to this product.

Application: Read the entire label before using this product.

- **EPS Adhesive Application:** Apply EPS Basecoat & Adhesive to the entire surface on one face of the EPS insulation board using a ½" notched trowel. The ribbons should be of uniform thickness, run vertically when positioned on the wall (parallel to the 2 ft. [61 cm] board dimension) and reach the perimeter of the insulation board. To ensure high initial grab and uniform adhesive contact, apply insulation board to the wall with firm pressure to the entire surface. Apply sufficient pressure to flatten adhesive ridges. Glass mat gypsum sheathing requires extra pressure.
- **EPS Basecoat Application:** Rasp EPS board after 24 hours and when adhesive application has fully cured and bonded (70°F (21°C), 50% RH). Using a stainless steel trowel, apply the EPS Basecoat mixture to the rasped surface of the insulation board to a uniform thickness of 1/16 - 3/32 in. (1.5 - 2.4mm). Embed the Parex USA reinforcing mesh (355 or 358.10) immediately in the wet EPS Basecoat & Adhesive mixture. Smooth the surface of the EPS Basecoat & Adhesive mixture with a trowel until the reinforcing mesh is fully embedded and the basecoat thickness is approximately 1/16 in. (1.5mm). The color of the reinforcing mesh should not be visible at the surface of the EPS Basecoat & Adhesive material. A slight pattern of the mesh is acceptable, due to shrinkage of the cementitious basecoat upon drying.
- **Mechanical Fastener Application:** Once the EPS Basecoat & Adhesive is set (24-48 hours); secure the coated EPS insulation board into the stud framing using screws and metal lock plates (Wind-lock type). Space fasteners 36 inches apart (per ICC-ESR 2562).
- **Application of Masonry Veneer:** Application of masonry veneer can begin once EPS insulation is cured and mechanical fastening is complete. Do not use Parex USA EPS Basecoat and Adhesive to adhere masonry veneer – Use Parex USA Masonry Veneer Adhesive to install masonry veneer units.

LIMITATIONS:

- Ambient and surface temperature must be 40°F (4°C) or higher during application and curing time. Provide supplemental heat and protection from precipitation as needed.
- Use only on surfaces that are sound, clean, dry, unpainted and free from any residue which may affect the ability of the EPS Basecoat & Adhesive to bond to the surface.
- Application in direct sunlight in hot weather will significantly reduce open time for embedding Parex reinforcing mesh and smoothing the surface.
- Do not use as a leveler for EPS. Rasp EPS level.

WARNING:

- Read complete warning information printed on product container prior to use. For medical emergency information, call 1-800-424-9300.
- For more information on handling this product refer to its Safety Data Sheet (SDS). The most current SDS and Product Data Sheet (PDS) can be found on our website.
- This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about the guidelines for the proper use and application of the covered product(s) under normal environmental and working conditions. Because each project is different, Parex USA, Inc. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

Cleaning: Water soluble prior to drying. Clean tools and containers with water before polymer/cement mixture sets.

Coverage: Depending on the condition of the substrate and method of application, approximate coverages per pail are:

- 1/2 in. (12.7mm) notched trowel: 215-240 ft² (20-22.3 m²)
- As a Basecoat to embed 355 Standard Mesh: 180-210 ft² (16.7-19.5 m²)
- As a double-layer Basecoat to 355 Standard Mesh and 358.10 Ultra High Impact Mesh: 150-190 ft² (14-17 m²)

6. Availability

Parex USA EPS Basecoat & Adhesive is available at leading building material and construction dealers. Contact Parex USA or visit our web site for the name of the nearest dealer at www.parexusa.com.

7. Warranty

Contact Parex USA Technical Services or visit our web site at www.parexusa.com.

8. Maintenance

Only minimal maintenance is usually required. General maintenance can be achieved with the use of clean water.

9. Technical Services

Parex USA maintains technical field representatives available throughout the country. Call Technical Services at 800-226-2424 for the nearest representative.

10. Filing Systems

Parex USA architectural and product information is available in catalog form, or electronically on our website at www.parexusa.com.