121 Optimum
Premium Basecoat & Adhesive

**DESCRIPTION:**
- Basecoat for Parex EIFS
- Adhesive to laminate EPS to listed substrates
- Applied without the addition of cement
- Mixed on site with water
- Best in class workability
- Extended pot life

**USES:**
- EPS adhesive for the following substrates:
  - Exterior grade gypsum sheathing
  - Glass mat gypsum sheathing
  - Masonry, concrete and cement board
  - EPS
  - Parex USA WeatherSeal Spray & Roll-On and WeatherSeal Trowel-On Water Resistive Barrier Coatings
- Basecoat for Parex Nu-Tech Stucco and other architectural coatings and finishes (ACF).
- Leveler and filler for masonry, concrete and stucco surfaces. For this application only, 121 Optimum Basecoat and Adhesive can be built up to 1/4 in. (6mm) thick in a single pass.

**COMPOSITION:**
- Binder base: Copolymer compatible with portland cement
- Water base: VOC compliant
- Color: Light gray

<table>
<thead>
<tr>
<th>TEST</th>
<th>METHOD</th>
<th>CRITERIA</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abrasion Resistance*</td>
<td>ASTM D968</td>
<td>No cracking or loss of film integrity at 528 quarts (500 L) of sand</td>
<td>Pass: 1000 Liters</td>
</tr>
<tr>
<td>Accelerated Weathering*</td>
<td>ASTM G153 (ASTM G 23)</td>
<td>No deleterious effects at 2000 hours when viewed under 5x magnification</td>
<td>Pass: 5512 hrs</td>
</tr>
<tr>
<td>Fungus Resistance</td>
<td>MIL STD 8108</td>
<td></td>
<td>28 days: no growth</td>
</tr>
<tr>
<td>Freeze/Thaw Resistance*</td>
<td>ASTM E2485</td>
<td>No deleterious effects at 10 cycles when viewed under 5x magnification</td>
<td>Pass: 60 Cycles</td>
</tr>
<tr>
<td>Impact Strength</td>
<td>EIMA 101.86 / ASTM E2486</td>
<td>Standard Impact</td>
<td>Pass with Standard Mesh, Higher Impact Ranges per Mesh</td>
</tr>
<tr>
<td>Mildew Resistance</td>
<td>ASTM D3273</td>
<td>No growth supported during 28 day exposure period</td>
<td>Pass: 60 Cycles</td>
</tr>
<tr>
<td>Water Penetration</td>
<td>ASTM E 331</td>
<td>No water penetration beyond the plane of the Basecoat/EPS board interface after 15 minutes at 6.24 psf (299 Pa)</td>
<td>Pass: 12 psf for 45 minutes</td>
</tr>
<tr>
<td>Moisture Resistance</td>
<td>ASTM D2247</td>
<td>No deleterious effects at 14 day exposure</td>
<td>Pass: 28 days</td>
</tr>
<tr>
<td>Salt Fog Resistance*</td>
<td>ASTM B117</td>
<td>No deleterious effects at 300 hours</td>
<td>Pass: 600 hrs</td>
</tr>
<tr>
<td>Surface Burning</td>
<td>ASTM E84</td>
<td>&lt; 25 Flame Spread, &lt; 450 Smoke Developed</td>
<td>Flame Spread : 5, Smoke Developed : 5</td>
</tr>
<tr>
<td>Characteristics</td>
<td></td>
<td></td>
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<tr>
<td>Tensile Adhesion (psi)</td>
<td>ASTM C297</td>
<td>&gt; 15 psi or no failure of adhesive</td>
<td>Concrete Block: 51 psi, Gypsum Sheathing: 33 psi, EPS Board: 41 psi, Dens-Glass® Gold: 35 psi</td>
</tr>
<tr>
<td>Water Penetration</td>
<td>ASTM E 331</td>
<td>No water penetration beyond the inner-most plane of the wall after 2 hours at 299 Pa (6.24 psf)</td>
<td>Pass</td>
</tr>
<tr>
<td>Water Vapor Transmission</td>
<td>ASTM E 96 Procedure B</td>
<td>Vapor Permeable</td>
<td>Permeable</td>
</tr>
<tr>
<td>Wind-Driven Rain</td>
<td>F.S. TT-C-555B</td>
<td>24Hrs: No penetration of water</td>
<td></td>
</tr>
</tbody>
</table>

*Tested with Parex USA Reinforcing mesh and DPR Finish Coat
As a leveler, coverage depends

CONTAINER:
50 lb (22.7kg) net weight in multimulti
water resistant bags.

Storage: Store off the ground and

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

APPLICATION:
Read the entire label before using
this product.

Adhesive Application: Apply the
121 Optimum Basecoat & Adhesive
to the entire surface on one face
of the insulation board, using a
5/8 in. (16 mm) notched trowel for
masonry and concrete , or a 1/2-in.
notched trowel for the WaterMaster
System, or a 5/16 in. (8 mm) notched
trowel for sheathing. The ribbons
should be of uniform thickness, run
vertically when positioned on the
wall (parallel to the 2 ft. [61cm]
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.

Basecoat Application: Rasp EPS board
after 24 hours and when adhesive has
fully cured and bonded (70°F [21°C],
50% RH). Using a stainless steel trowel,
apply the 121 Optimum Basecoat &
Adhesive mixture to the rapped 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
immediately in the wet 121 Optimum
Basecoat & Adhesive mixture. Smooth
the surface of the 121 Optimum
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 121 Optimum
Basecoat & Adhesive material. A slight
pattern of the mesh is acceptable, due to
shrinkage of the cementitious Basecoat
upon drying.

As a leveler or filler: Apply Parex 121
Optimum Basecoat & Adhesive and trowel
to a smooth, uniform surface. Maximum
thickness in a single application should be
no more than 1/4 in. (6mm).

When overlapping reinforcing mesh,
special care must be taken to ensure the
basecoat & mesh is flat, level and free
from bumps. Basecoat should be
feathered onto either side of the
overlap. The mesh overlaps should be
reviewed to ensure they are acceptably
flat before proceeding. Refer to
Technical Bulletin 61 for more
information.

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 121 Optimum 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.