

**ERS-303-HP**P/N: 035-0000
For Professional Use Only

Tint Packs:

Aluminum Stone	035-0001
Anodized Aluminum	035-0002
Beige	035-0003
Limestone	035-0004
Natural Stone	035-0005
Off-White	035-0006
Tan	035-0007
Tru-White	035-0008

PRODUCT DESCRIPTION:

ERS-303-HP is a general purpose non-sag elastomeric sealant that creates a tenacious bond and watertight seal between materials of similar or dissimilar surface textures, porosities or expansion coefficients. It is provided as a two-part base and activator system to be mixed with the appropriate color tint pack.

RECOMMENDED USES:

ERS-303-HP designed for use in expansion and control joints in precast panels, tilt walls and curtain walls; bedding panels, coping joints, window and door perimeters, glazing, acoustical and fire stopping applications. Its wide color range and low modulus make it highly effective in exterior insulated finish systems (EIFS).

LIMITATIONS: Not recommended for:

- Joints contaminated with oil, grease, wax, dust, corrosion, tar, asphalt, loose aggregate, frost, dampness, form-release agents, or other coatings.
- Exposures to harsh chemicals.
- Joints less than ¼" in width or depth.
- Joints where contact may be made with polysulfide sealants.
- Certain architectural paints and finishes without prior laboratory or field testing.
- Glazing as a cap bead, heel or toe bead with high performance glass and acrylic or polycarbonate sheets.

APPLICABLE STANDARD:

Meets Federal Specification TT-S-00227E, Class A, Type II, ASTM C-920-79, Type M (Multi-Component), Grade NS (Non-Sag), Class 25 (25% movement). Use NT (Non-Traffic), M (Masonry), A (Aluminum) and O (other, i.e. wood).

INSTALLATION:

Surface Preparation: Joint surfaces must be dry, clean and free of all contamination. Glass, metal and other nonporous surfaces must be free of any coatings and wiped clean with solvent. Precast panels using form-release agents other than polyethylene film must be sandblasted or mechanically abraded and blown or brushed dust free.

Priming: Not required on glass or anodized aluminum and usually not necessary on most other common building materials. However, varieties of brick, natural stone, plastics, paints, coatings and other surface treatments often present the need for priming. Due to the number and unpredictable nature of these substrates, a field or laboratory test is recommended to determine the adhesion of ERS-303-HP with or without primer. When priming is indicated, ERS-Primer #100 should be used on porous and nonporous substrates or consult Technical Services. All primers and sealants to be used in accordance with local VOC regulations. Sealant should be applied within 8 hours after priming; otherwise, it will be necessary to reprime.

All Exterior Insulation Finish Systems must be primed with ERS-Primer #100. Consult Ecology Technical Services for specific EIFS recommendations.

Also, because architectural stones such as marble and granite vary considerably in porosity, some bleeding of the sealant into the substrate is a possibility. Again, a field or laboratory test to confirm this possibility is recommended.

Joint Backing: Backer rod controls the depth of the sealant and allows it to be applied under pressure. Closed-cell polyethylene or open-cell polyurethane is recommended. Use a size that will compress 25% when inserted into the joint. In joints too shallow for backer rod, use a bond-breaker tape to prevent undesirable three-sided adhesion.

Application: The Base and Activator (nested in Base container) are formulated and pre-measured to function as a unit. Do not interchange Base or Activator components from one shipment with those from another. The two components should be blended thoroughly along with the desired Tint Pack for a minimum of six (6) minutes in accordance with mixing instructions appearing on the container label.

Do not thin with solvents or adulterate it in any way. Apply sealant to joints, using standard caulking equipment. Application life is 3-4 hours at 77° F (25° C), 50% R.H. Higher temperature and/or humidity will shorten this application life.

Tooling: Tool immediately to assure full adhesion. Tooling without a slicking agent is preferred but if conditions require one, mineral spirits is recommended. (See Caution statement.)

Painting: Due to variability in paint products and their raw materials, installation conditions, installation techniques as well as primers, it is required that contractors who apply paint, pretest paint onto sealant, to determine suitability. Oil based paints can exhibit a slow/non-curing condition. Field test is required and user must determine suitability. Paintable after 72 hours.

Clean Up: Immediately remove all excess sealant and smears adjacent to joints with mineral spirits. Also use mineral spirits to clean uncured sealant from equipment. Remove cured sealant by scraping, sandpapering, etc. (Caution: mineral spirits is flammable and toxic. Observe manufacturer's precautions.)

PACKAGING:

ERS-303-HP is available in a 1.5 gallon unit, includes base and activator. Tint packs are sold separately. Custom color tint packs are available upon request; minimum order quantity and additional cost will apply.

STORAGE LIFE:

ERS-303-HP has a shelf life of approximately one (1) year from the date of manufacture when stored in sealed containers at temperatures lower than 80°F (26°C). ERS-303-HP performs equally well during any part of this shelf life.

PRECAUTIONS:

ERS-303-HP should not be used without addition of color.

ERS-303-HP contains diisocyanates. Contact with uncured sealant, with vapors generated during curing, or with dust formed from cured sealant may cause eye, skin, or respiratory tract irritation or allergic reaction. Do not breathe fumes, dusts, vapors or mist. Keep container closed. Use only with adequate ventilation or wear an appropriate NIOSH-approved respirator. Harmful if swallowed. Do not swallow or take internally. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Keep away from heat, sparks and flame. Repeated contact may, without symptoms, increase susceptibility of these effects. Refer to Material Safety Data Sheet (MSDS) for more information.

ERS-303-HP should not be used in areas exposed to harsh chemicals.

PHYSICAL PROPERTIES:

Property	Typical Value	Test Method
Adhesion & Cohesion	No bond loss**	ASTM C 719
Adhesion-in-peel (lbs)	28, (4.kN/m) No adhesion loss*	ASTM C 794
Adhesion-in-peel after UV exposure (pli)	28, (4.kN/m) No adhesion loss	ASTM C 794
Application life (hours)	4 – 5	ASTM C 603
Effect of acceleration weathering	No cracking	ASTM C 793
Effect of heat aging (%)	1.4	ASTM C 793
Extrusion rate (seconds)	4	ASTM C 603
Hardness, Shore A	25 – 35	ASTM D 661
Rheological properties	0	ASTM D 639
Stain & color change	None	ASTM C 510
Tack-free time (hours)	8 – 16	ASTM C 679
VOC Content:		
Activator (g/L)	<10	ASTM D 3960
Base (g/L)	<25	

** when tested for ±50% movement
* aluminum, glass and primed concrete substrates



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