STAYROMAX®
EPS COATING SYSTEM
DATA SHEET & MANUAL OF USE



ABOUT STAYROMAX EPS COATING SYSTEM

Coated EPS Cornices are factory-finished decorative architectural elements manufactured from high-density Expanded Polystyrene (EPS), precisely cut and shaped into custom profiles. The EPS core is protected with a polymer-modified cementitious coating incorporating graded sand and acrylic additives, providing high surface hardness while maintaining controlled flexibility.

These cornices offer excellent resistance to impact, weather conditions, and water absorption, making them a lightweight and durable alternative to traditional materials such as stone, marble, and precast concrete. Suitable for exterior façades and interior applications, they are easily paintable and available in a wide range of standard and customized designs.

SPF
شركة مصنع الشرق للبوليستيرين المحدودة
AL-SHARQ POLYSTYRENE FACTORY CO. LTD.

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PRODUCT PROPERTIES & KEY FEATURES



Lightweight



Customizable Designs



Weather-Resistant



Easy-to-Install



Various Colors and Textures



Energy Saving Up to 40%



Durable



Economic



Aesthetic Renovation

MATERIAL COMPOSITION

1. EPS CORE (EXPANDED POLYSTYRENE)	
Description	High-density Expanded Polystyrene (EPS) foam, lightweight and precisely shaped into architectural cornice profiles.
Function	Forms the main body of the cornice, providing dimensional stability, controlled flexibility, and thermal insulation.
Typical Density	Exterior applications: 20–30 kg/m³
2. POLYMER-BASED PROTECTIVE COATING (NON-CEMENTITIOUS)	
Description	A factory-applied polymer-based protective coating formulated from a blend of organic binders, graded mineral fillers, performance modifiers, and proprietary additives. The formulation is specifically engineered to achieve high surface hardness, flexibility, and durability without the use of cementitious materials.
Function	• Provides a dense and impact-resistant surface layer • Ensures strong adhesion to the EPS substrate • Enhances resistance to moisture penetration and weather exposure • Allows controlled flexibility to reduce surface cracking • Acts as the base for final surface finish and paint systems

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TECHNICAL SPECIFICATIONS

TABLE 1: MECHANICAL & PHYSICAL PERFORMANCE			
TEST NAME	**SPECIFICATION CODE**	**UNIT**	**VALUE**
Impact Resistance	EN 13497	Joule	No damage at 10 J (1000 g) No damage at 20 J (2000 g)
Liquid Water Permeability	EN 1062-3	$kg/m^2 \cdot h^{0.5}$	≤ 0.30
Tensile Bond Strength (Base Coat to EPS)	EN 13494	kPa	≥ 300

TABLE 2: MATERIAL CHARACTERISTICS & PERFORMANCE		
CHARACTERISTIC	**PERFORMANCE**	**STANDARD**
Reaction to Fire	Class E	EN 13501-1
Thermal Conductivity (λ)	≤ 0.036 W/m · K	EN 12667
EPS Core Density	22 – 25 kg/m^3	EN 1602
Acrylic Coating Density	approx. 1.6 – 1.8 kg/L	EN ISO 2811
Applied Coating Thickness	3 – 5 mm	Manufacturer Spec
Water Vapor Transmission	≤ 0.50 $kg/m^2 \cdot h$	EN 1062-3
Water Absorption	≤ 20 g/m^2 per day	EN ISO 7783-2
Coating Adhesion to EPS	≥ 80 kPa	EN 13494
Release of Dangerous Substances	Compliant	EN 13163 – Cl. 4.3.19

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PRODUCT BENEFITS

PROPERTY	STAYROMAX EPS COATING SYSTEM
PRODUCT BENEFITS	• **Design Flexibility:** Wide range of standard and custom architectural profiles. • **Lightweight System:** Easy handling, transportation, and fast installation. • **Thermal Performance:** Helps reduce heat transfer in hot climate conditions. • **Weather Resistance:** Withstands humidity, UV exposure, and discoloration. • **Low Water Absorption:** Ensures durability and long-term exterior performance. • **Paint Compatibility:** Strong surface adhesion with premium paint systems. • **High Elasticity:** Minimizes cracking and absorbs minor impacts. • **Mechanical Strength:** Resists handling stress and surface damage. • **Factory Finish:** Reduces on-site finishing work and installation time. • **Low Maintenance:** Easy to clean with minimal upkeep. • **Cost Efficiency:** More economical than traditional decorative materials. • **Energy Efficiency:** Supports reduced cooling energy demand.
SURFACE FINISH	Factory-applied coating providing a durable, paint-ready surface compatible with acrylic, silicone, or elastomeric finishes.
DIMENSIONS & PROFILES	Flexible lengths and thicknesses, fully customizable to meet any architectural requirements. Profiles can be tailored freely to match your unique design vision.
PACKAGING AND STORAGE	• **Packaging:** Delivered in protective wrapping to prevent damage. • **Storage:** Store in a dry, covered area away from direct sunlight.
GUIDELINES	1. A final acrylic coating or paint finish must be applied within a maximum of 30 days after installation to protect the surface from UV exposure and weather conditions. 2. All joints, edges, and connections must be properly sealed to ensure a continuous, watertight surface. 3. Confirm that no gaps, openings, or unsealed areas remain that could allow water penetration.

Technical Notes: The values listed are based on laboratory testing and typical production results. Actual performance may vary depending on application conditions and installation methods. Users should verify suitability for the intended use and ensure compliance with applicable standards.

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STEP-BY-STEP GUIDE TO ACHIEVING A PERFECT DECORATIVE FAÇADE



1. Prepare the Cornices and Surface

- Clean the Cornices: Ensure the cornices are free from dust or oils.
- Clean the Surface: The wall or surface must be clean, dry, and free from any materials that may hinder adhesion



2. Measure and Mark the Installation Area

- Measure: Use a measuring tape to determine the position for the cornices.
- Mark: Use a pencil or chalk to draw straight lines or marks as guidelines for placement.



3. Prepare the Adhesive Material

- Use a special adhesive such as polymer adhesive or modified white cement.
- Mix the adhesive (if required) according to the manufacturer's instructions.



4. Attach the Cornices

- Apply a layer of adhesive on the back of the cornices using a notched trowel. Ensure the layer is even.
- Press the cornices gently onto the wall, aligning them with the marks you've made.



5. Secure with Screws

For heavy or large cornices, use small screws or special wall anchors to temporarily secure them until the adhesive dries.



6. Fill the Gaps

Use acrylic filler or a sealing material to fill any gaps between the cornices and the wall.

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7. Final Finishing

- Allow the adhesive to dry completely for at least 24 hours.
- Painting: If needed, paint the cornices using weather-resistant acrylic paints.

8. Clean Up

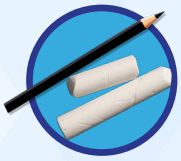
- Wipe off any excess adhesive or filler with a damp cloth.
- Inspect the installation to ensure the cornices are properly aligned and securely attached.



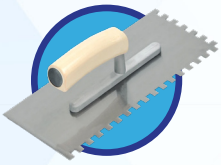
TOOLS AND MATERIALS REQUIRED



Measuring tape



Pencil or Chalk



Notched trowel



Polymer Adhesive Cement.



Screws Drivers (optional)



Acrylic Filler



Putty Knife



360° Insulation

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