

Duropolym[®]

Extruded, impact-resistant polymer made from high-density polystyrene, made in the EU, designed for indoor use.

Product range



Main characteristics

- Durable and long-lasting materials: shock and impact resistant
- Sustainable material composition: low environmental impact and 100% recyclable (mainly through waste collection points)
- Water resistant
- Primed and paintable. Only UV stable after final painting
- Easy installation:
 - Installation guides available per product range
 - Very easy to cut
 - V-Fix (groove for guiding the glue nozzle)
 - Can be sanded to obtain a perfect seamless finish

Further technical information

- Composition: Polymer polystyrene (>95%) (Mix of virgin, up to 60% recycled and up to 40% plant-based polymers)
- Dimensionally stable if correctly installed according to the instructions and the use of the recommended DecoFix adhesives
- Heat resistant up to max 65°C
- Standard not flame retardant (see chapter 'Fire retardancy', page 5)
- Resistant to splitting.
- Termite resistant
- Mechanical properties:

	Cornice	Panel moulding	Skirting boards	3D Wall covering	Ledge portfolio	Deco elements
Shore D Hardness	> 27	> 55	> 55	> 55	>55	> 55
Density (g/l)	220-260	350-420	300-420	300-340	300-340	350-420
Knock/impact resistance	N.A.	3-5J	5-9J	>7J	>7J	3-5J
Scratch resistance	N.A.	>5N	>5N	>7N	>7N	>5N

Sustainability

- 100% Recyclable
- Renewable content: See table below for details. Composition includes plant-based materials, post-industrial, and post-consumer waste streams.
- End-of-life disposal: Can be disposed as hard plastics fraction within the waste collection points
- Packaging cardboard boxes made from over 90% recycled materials.
- Non-toxic composition: free of asbestos, cyanides and formaldehyde, CFC and PFAS

	Cornice	Panel moulding	Skirting boards	3D Wall covering	Ledge portfolio	Deco elements
Renewable content *	0-10%	5-15%	20-60% **	100%	40-60%	5-15%

* Depending on the availability of materials on the market – this is why a range is given and not an exact figure; technology is ready to scale-up

** Skirting (bestseller) produced with new potential coextrusion technology reaching 40-60%

Life Cycle Assessment (LCA)

- LCA Impact: assessed per kg of product ; a detailed environmental footprint per product available upon request
- Global Warming Potential (GWP): measured per kg of product ; a detailed GWP per product available upon request
- Standards compliance with ISO14040, ISO14044, EN15804+A2
- Internal LCA document available upon request.
- Carbon Footprint info in below table

	Cornice	Panel moulding	Skirting boards	3D Wall covering	Ledge portfolio	Deco elements
Full Carbon Footprint in kg CO ₂ eq./kg product	1,931	1,810	1,521	0,400	1,521	1,810

Fire retardant treatment (FR)

- Orac products are not fire retardant as standard. However, they can be treated in Orac's factories with a fire retardant coating to meet European fire safety standards in accordance with EN 13501-1.
- When treated (with a specific fire retarding coating) and installed under the specified conditions:
 - Duropolymer® can achieve a Bs1d0 classification when applied to a surface covering up to 25% of a wall area.
- This classification is only valid when the products are installed using:
 - FDP700 DecoFix Power as installation adhesive
 - FX400 DecoFix Ultra as joint adhesive
 - FF900 DecoFire as a sealer
- The FF900 DecoFire must be applied between the profile edges and the adjacent floor, wall, or ceiling to create a continuous seal.
- No additional requirements apply.
- For specific applications or to assess compliance with project requirements, please contact the Orac team for further guidance.

Acoustic performance

- Duropolymer® products obtained a Class E as absorption Class.
- $\alpha_w = 0,15$

Insulation properties

- Heat Conductivity - Lambda value in mW/mK

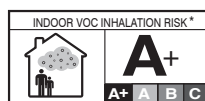
	Cornice	Panel moulding	Skirting boards	3D Wall covering	Ledge portfolio	Deco elements
Heat conductivity	32	54	51	51	51	54

Painting and maintenance

- Painting: Our Duropolymer® products have a matte primed surface for smooth painting and excellent adhesion.
 - UV-stable only after final painting.
 - Use water-based paint or test alternatives.
 - Orac is not liable for post-manipulation results.
 - Always follow the instructions of the finishing paint used
- Able to repaint endlessly and fix imperfections with our FL300 DecoFiller.
- Maintenance and care: Resistant to most common cleaning detergents and moisture.

Environmental certification

- All products hold a VOC A+-label
- Orac is ISO 14001 certified
- Orac is ISO 45001 certified
- Orac is ISCC PLUS certified



Duropolymer®: A+ VOC 0%

Statement on product conformity

Our products are not classified as building products; there is also no harmonized norm that we need to follow. Therefore we are legally not allowed to issue a CE conformity declaration.

Storage and installation all materials

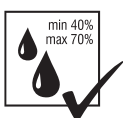
Suitable surfaces

Indoor use only. Apply only to clean, dry, dust- and grease-free surfaces.

Walls and ceilings must be flat for smooth installation. Sand and wash before applying.

Storage & conditioning

Store profiles flat to prevent bending—do not store vertically. Maintain temperature between 5–35 °C and humidity at 40–70%. Allow products to acclimate at room temperature for 24 hours before installation.



Tools

Orac offers a set of tools to help you obtaining a perfect installation; if specific questions please contact us (see contact info on first page)

**The full guarantee is only valid when DecoFix adhesives are used
and the installation instructions are followed.**

Designed for interiors

Orac products (including DecoFix adhesives) are specifically designed for indoor use, where they retain their shape, aesthetics, and performance over time.

To maintain their quality and finish, we recommend using them exclusively indoors. As outdoor conditions can alter their properties, we cannot guarantee results for outdoor use. If you have any questions, our team is available to help.

Please consult our installation guides & videos on our website



guides | videos

Have a look at all our installation guides and videos online



glue calculator

See which glues to use and calculate the amount you need for the perfect installation