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## STONE-COAT - TECHNICAL DATA SHEET

### Product Description

Stone-Coat is a lightweight architectural stone product that addresses the weight and installation challenges of traditional stonework while offering complete design flexibility.

Crafted from high-density EPS 300 polystyrene, Stone-Coat is fully sealed within a robust protective Polyurethane layer and finished with a unique coating that mimics the appearance and texture of real stone.

Our lightweight imitation stone mouldings are fully weatherproof, tough, and durable, and can be produced in virtually any profile, shape, or colour.

### Product Features

- Weatherproof & durable
- Easy to install
- Perfect for weight restricted areas
- Fitted after building work is completed, reducing delays on site
- Low maintenance
- Design flexibility
- Complex shapes or large projections
- Match to existing stonework

[Technical Data – EPS 300](#)  
[BS EN 13163:2012 + A2:2016](#)

Essential characteristic	Performance		Harmonised Technical Specification
Thermal resistance	Thermal resistance $R_D$	See Table 1 (below)	EN 13163: 2012 + A2: 2016
	Thermal conductivity $\lambda_D$	0.033 W/m·K	
	Thickness $d_N$	T2	
Reaction to fire	Reaction to fire	NPD	
Durability of reaction to fire against heat, weathering, ageing/degradation	Durability characteristics	NPD	
Durability of thermal resistance against heat, weathering, ageing/degradation	Durability characteristics	NPD	
Compressive strength	Compressive stress at 10% deformation	CS(10)300	
Tensile/Flexural strength	Bending strength	BS450	
	Tensile strength perpendicular to faces	NPD	
Durability of compressive strength against ageing and degradation	Compressive creep	0.30 $\sigma_{10}$ (Table C.1)	
	Freeze-thaw resistance	NPD	
	Long term thickness reduction	NPD	
Water permeability	Long term water absorption by immersion	NPD	
	Long term water absorption by diffusion	NPD	
Water vapour permeability	Water vapour transmission	40 – 100 $\mu$ (Table F.2)	
Nominal thickness range: 10-600mm		Thermal resistance $m^2 \cdot K/W$	
10mm		0.30 $m^2 \cdot K/W$	
600mm		18.15 $m^2 \cdot K/W$	

[Technical Data – Polyurethane Coating](#)  
[BS EN 13163:2012 + A2:2016](#)

Hardness, Shore A	85-90
Tensile strength (N/mm <sup>2</sup> )	15
Elongation at break (%)	320
Tear Strength (kN/m)	50

[Storage & Handling](#)

Prior to installation, Stone-Coat products should be stored in a cool, dry area. Care should be taken to avoid damaging product during storage. Do not stack other items on top of Stone-Coat products during storage. Avoid storing near moving machinery or in areas where the product is likely to sustain knocks that could cause damage. Due to their lightweight nature, Stone-Coat products can usually be handled manually. Items larger than 1.5m in length should be held at either end to avoid over bending.

## Installation

Stone-Coat products should always be installed in-line with our installation guidelines. Copies of these are available upon request or can be downloaded from the below links.

Stone-Coat Mouldings Installation Guide:

<https://www.build-liteuk.co.uk/wp-content/uploads/2023/12/Build-Lite-Stone-Coat-Mouldings-Installation-Guidelines.pdf>

Stone-Coat Parapet Coping System Installation Guide:

<https://www.build-liteuk.co.uk/wp-content/uploads/2024/10/Build-Lite-Parapet-Coping-System-Installation-Guide-Ver-1.6.pdf>

## Cleaning & Maintenance

As with any external product, weathering will occur over time (varies on conditions) and Stone-Coat products may require maintenance.

If necessary, Stone-Coat products can be cleaned.

Use clean warm water and a cloth or soft non-metallic brush to gently scrub areas requiring cleaning. If required, a non-aggressive cleaning or algae removing agent can also be applied to assist. Care should be taken not to damage the coating.

Once cleaned, the product should be rinsed with clean cold water and allowed to air dry. Never use a pressure washer to clean Stone-Coat products.

Stone-Coat products can be overpainted. We recommend to use a good quality exterior masonry paint, such a Dulux Weathershield.