

POLY-ELAST RAPID O

Bituminous Single Layer Waterproofing Membrane



Introduction

POLY-ELAST RAPID O is a single layer, bituminous membrane which is saturated and coated with high quality SBS (Styrene-Butadiene-Styrene) modified bitumen. It has a 180g/m² compound reinforcement and incorporates diagonal shaped channels on the underside which help to vent and control any entrapped roof moisture, eliminating any risk of blistering. In addition, the membrane features the latest graphite firewall technology within its formulation and has been fully fire tested as part of a designated system in accordance with EN 13501-5 and ENV 1187:2002, Broof Test 4.

Product Description

POLY-ELAST RAPID O provides a cost-effective, fast-track method of overlaying existing roof coverings to provide a reliable, long-lasting waterproofing solution. The product is compatible with all common bituminous and asphaltic substrates.

Product Features

- Cost-effective overlay solution
- Graphite technology which actively prevents spread of flames on roof
- Diagonal shaped channels on underside providing roof moisture control and preventing blistering
- Excellent low temperature flexibility at -25°C
- Robust, thick product – highly resistant to site foot traffic
- Tested as part of a system to achieve Broof Test 4 fire classification as certified by Warringtonfire

Application

POLY-ELAST RAPID O should be installed in accordance with manufacturer recommendations and all relevant national standards and codes of practice, including BS 8217: 2005 – the code of practice for reinforced bitumen membranes for roofing.

Roofing contractors should also be fully conversant with the guidelines set out in the National Federation of Roofing Contractors (NFRC) 'Safe2Torch' campaign. All operatives using torch guns or hot air guns during installation should be competent, conversant and capable of using such items in a safe and responsible manner. Care must also be taken when using torches and hot air guns in close proximity to combustible materials, decorative coatings and heat sensitive materials.

When setting out the field area, rolls should always be laid in the same direction. Side lap width should be at least 8cm with end laps of at least 10 cm.

POLY-ELAST RAPID O can be rapidly bonded to the existing substrate surface by using the torch-on application method. When torching, ensure that a constant flow of bitumen is maintained across the whole width of the roll and that a continuous bead of bitumen (5-15 mm) is exuded from all side and end laps to demonstrate that a good seal has been achieved. When addressing an angle where the membrane will change from a horizontal to a vertical configuration, press the product firmly into place and ensure that a full bond is achieved throughout the detail. For detailed installation guidelines, please consult BÖRNER Technical Services.

NB: The colour of the granules may vary during their useful life due to the effect of the weather and other outside agents.

Chemical Resistance

POLY-ELAST RAPID O is water-resistant and is resistant to watery solutions of salt, diluted non-oxidising acids and bases. Aliphatic and aromatic hydrocarbons, as well as chlorine hydrocarbons, oils and greases may loosen the product and should therefore be avoided.

Storage

Store in a cool, dry place and protect from direct sunlight.

Health and Safety

Health and Safety should be observed at all times in accordance with HSE and industry guidance. Specific Risk Assessments and Method Statements should be produced by contractors where necessary to ensure Working at Heights, Fire Safety and Manual Handling rules are compliant with current law and regulations. Health and safety data sheets are available for all materials on request from BÖRNER Technical Service Department.

Availability

Product Name	Product Code	Roll Dimensions (m)	Weight (kg/m ²)
POLY-ELAST RAPID O (Anthracite)	TN598261	5.0 x 1.00	6.0
POLY-ELAST RAPID O (Crystal Black)*	TN635145	5.0 x 1.00	6.0

*Specification systems only – please contact BÖRNER for further details

Performance and Key Properties

Properties	Test Method		Declared Performance
Length	DIN EN 1848-1	m	≥ 5.00
Width	DIN EN 1848-1	m	≥ 1.00
Straightness	DIN EN 1848-1	mm/10 m	≤ 20
Mass per unit area	DIN EN 1849-1	kg/m ²	6.0 (± 5%)
Thickness	DIN EN 1849-1	mm	5.00 (± 5%)
Water tightness at 200 kPa test pressure	DIN EN 1928 Method B	-	passed
Tensile properties: maximum tensile force	DIN EN 12311-1	N/50mm	800/700 (± 10%)
Tensile properties: elongation	DIN EN 12311-1	%	30/30 (± 5 abs)
Flexibility at low temperatures	DIN EN 1109	° C	≤ - 25
Flow resistance at elevated temperatures	DIN EN 1110	° C	≥ + 110
External fire performance	Fire tested as part of a system in accordance with EN 13501-5 and ENV 1187:2002, Broof Test 4 as certified by Warringtonfire*		
Reaction to fire	DIN EN 11925-2	-	Class E according to DIN EN 13501-1

*As outlined in Warringtonfire Classification Report Nos. 19901D & 19901H

Quality Assurance

POLY-ELAST RAPID O is manufactured following ISO 9001: 2008 Quality Management System and Environmental Management System approved to ISO 14001: 2004.

Technical Service and Other Products

Specialist advice and information on other compatible products can be found at <http://www.borner.ie>