

COLPHENE 2090 AR

Description

COLPHENE 2090 AR is a self-adhesive flexible SBS elastomeric bitumen waterproofing membrane with a glass fleece reinforcement. The self-adhesive bitumen on the underside is protected by a silicone release film and the membrane is self-protected by slate chippings on the topside.

Composition

	COLPHENE 2090 AR
Reinforcement	Glass fleece
Binder	Elastomeric bitumen* : blend of selected bitumen and SBS thermoplastic polymers
Nominal Thickness	2,0 mm on overlap 2,7 mm on slates
Approximate surface weight	3,3 kg/m ²
Topside	Slate chippings: Matisse brown, Cézanne sienna, Veronese green, Gauguin red, Chagall grey
Underside	Silicone release film
Overlap	8 cm (protected with a silicone release film)

*According to UEAtc directives for the approval of SBS elastomeric bitumen waterproof covering.

Characteristics

	COLPHENE 2090 AR	
	MDV ¹	MLV ²
Tensile Strength (EN 12311-1)		
-longitudinal	450 N / 5cm	250 N / 5cm
-transversal	250 N / 5cm	150 N / 5cm
Elongation with maximum force (EN 12311-1)		
-longitudinal	2.2 %	2 %
-transversal	2 %	2 %
Resistance to nail tearing (UEAtc § 5.41)		
-longitudinal	95 N	50 N
-transversal	75 N	50 N
Resistance to outer layer tearing (ASTM D 624)		
-longitudinal	28 N	15 N
-transversal	18 N	10 N
Resistance to outer layer tearing (DIN 53859)		
-longitudinal	14 N	10 N
-transversal	14 N	10 N
Static puncture resistance (ASTM E 154)	110 N / 5 mm	80 N / 5 mm
Adhesive strength at 10°C	50 N / 5 cm	30 N / 5 cm

⁽¹⁾MDV = Manufacturer's determined value: An arithmetic mean value of a minimum number of independent measurements.

⁽²⁾MLV = Manufacturer's limiting value: Minimum or maximum value as started by the manufacturer to be met during testing of type, internal quality control or external supervision with a confidence level of 95 %.

Packaging

COLPHENE 2090 AR	
Roll dimensions	10 m x 1 m
Roll weight	about 34 kg

Roll lengths are given with a tolerance of $\leq 1\%$. Roll can be cut in two parts. In this case, the shortest length is 3 meters and the total length is equal to the nominal length.
 Width of roll is given with a tolerance of 1% (UEAtc).
 Rolls must be stored upright on flat ground. Pallets may be stacked to a maximum of two high with separating layer.
 During storage, protect the rolls against moisture. In cold weather, we recommend that the rolls be kept at a minimum temperature of + 2°C (+ 36 °F) for at least 5 hours before installation.

User application

COLPHENE 2090 AR is to be used as a second layer for roof waterproofing.

All the applications are described in the French Standards DTU, Technical Guidelines or Technical Approvals. For more details refer to specific technical information.

Installation

COLPHENE 2090 AR must be applied directly onto treated surfaces:

- Brush and dry surface.
- If needed, cover the surface with a coat of ELASTOCOL 600 or ELASTOCOL 350 primer using a brush or a roller.
- Once dry, put roll into place and set it to the appropriate size.
- Apply primer on the surface.
- Pull on sheet and lay it out while flattening the surface so as to avoid air getting trapped.
- Ideal laying temperature: + 10 °C.
- Edge covering: Before the overlapping procedure the chippings must be covered with a coat of **COLPHENE** glue using a spatula. **COLPHENE** glue is delivered in the **COLPHENE 2090 AR** chuck.

Special indications

Hygiene, health and environment:

The sheet does not contain any substance likely to be detrimental to health or to environment and complies with generally admitted Health and Safety Requirements. For further information, please refer to relevant Safety Data Sheet.

Quality control:


SOPREMA has always attached the highest importance to Quality Control. For this reason, we operate an independently monitored Quality Assurance System in compliance with **ISO 9001: 2008**, certified by **BSI Management System**.



CE Marking

COLPHENE 2090 AR is a flexible membrane for roof waterproofing and complies with EN 13707, thereby bearing the CE standard marking.

General information concerning the CE marking, expressed in MLV, can be found below. For more information, please refer to the relevant Declaration of Conformity.

 CSTB 0679	
<p><u>COLPHENE 2090 AR</u> SOPREMA S.A.S. B.P. 60121 – 14, rue de St-Nazaire 67025 STRASBOURG CEDEX 1 06 Certificate of Factory Production Control 0679-CPD-0130 / 0679-CPD-0602</p>	
<p><u>EN 13707</u> Self-adhesive membrane composed of modified self-adhesive bitumen and a glass fleece. Topside is covered with slate chippings and underside is covered with a silicone release film. Dimensions : 10 m x 1 m x 2,7 mm.</p> <p>To be used as a cap sheet.</p>	
Classification for external fire exposure (EN 13501-5)	-
Reaction to fire (EN 13501-1)	F
Tensile Strength in longitudinal direction (EN 12311-1)	250 N/ 5cm
Tensile Strength in transversal direction (EN 12311-1)	150 N/ 5cm
Elongation in longitudinal direction (EN 12311-1)	2 %
Elongation in transversal direction (EN 12311-1)	2 %
Low temperature flexibility (EN 1109)	- 14 °C
Flow resistance at high temperature (EN 1110)	100 °C
Watertightness (EN 1928)	Conform