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DACO-KSO

Self-Adhesive, SBS Modified Bituminous Cap Sheet

CE

Introduction

DACO-KSO is a cold-applied, self-adhesive bituminous cap sheet which is saturated and coated with high quality SBS (Styrene-Butadiene-Styrene) modified bitumen. It has a strong 280g/m^2 polyester/glass composite reinforcement and incorporates a special graphite additive within the coating to provide exceptional fire protection properties. The upper layer is protected with slate mineral and the bottom layer is coated with self-adhesive compound, covered with removable film.

Product Description

DACO-KSO is designed for use as a premium cap sheet (top layer), and is ideal for use within cold-applied roofing systems. It is compatible with **DACO-KSU-FO** self-adhesive underlay membrane.

Product Features

- Flame free, self-adhesive application
- Graphite technology which actively prevents spread of flames on roof
- Excellent low temperature flexibility at -25°C
- 280g/m^2 polyester/glass composite reinforcement
- SBS modified bitumen

Application

DACO-KSO 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. If hot air guns are used during application, operatives should be competent, conversant and capable of using such items in a safe and responsible manner. Care must also be taken when using hot air guns in close proximity to combustible materials, decorative coatings and heat sensitive materials.

In order to install the **DACO-KSO** membrane correctly, ensure that the surface is dry, free of oil, fat and dust and other impurities. The membrane is applied by pulling off the bottom separating foil while simultaneously rolling out the sheet. Any overlapping membrane at a t-joint connection must have a diagonal cut over the width of the overlapping. The diagonal sheet edge must be cut off with a knife at approx. 45°. The joint overlap should be at least 8 cm wide. The protective sheet of the longitudinal seam must be removed. Any overlaps on the mineral chippings must be sealed with a hot air blow dryer (>3000 W). All joint overlaps should be unrolled with a draw roll. When applying **DACO-KSO** ambient and surface temperatures should be at least + 5°C.

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

Chemical Resistance

DACO-KSO 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. The product should be installed within 3 months of delivery, otherwise the surface must be primed with a suitable primer (please contact BÖRNER for further details).

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/m²)
DACO-KSO (Crystal Black)	TN631880	7.5 x 1.08	5.2

Performance and Key Properties

Properties	Test Method		Declared Performance
Length	DIN EN 1848-1	m	≥ 7.50
Width	DIN EN 1848-1	m	≥ 1.08
Straightness	DIN EN 1848-1	mm/10 m	< 20
Mass per unit area	DIN EN 1849-1	kg/m²	4.07 (± 5%)
Thickness	DIN EN 1849-1	mm	4.2
Water tightness	DIN EN 1928 Method B	-	passed
External fire performance	DIN V ENV 1187	-	see testing of system
Reaction to fire	DIN EN 11925-2	-	Class E according to DIN EN 13501-1
Tensile properties: maximum tensile force	DIN EN 12311-1	N/50mm	1400 / 1300 (± 15%)
Tensile properties: elongation	DIN EN 12311-1	%	20 / 25 (± 3 abs)
Dimensional stability	DIN EN 1107-1	%	0.18 (± 0.09)
Flexibility at low temperatures	DIN EN 1109	° C	≤ - 25
Resistance to thermal distortion	DIN EN 1110	° C	+ 100

Quality Assurance

DACO-KSO 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