



## DACO-KSU-FO

### Self-Adhesive, SBS Modified Bituminous Underlay

#### Introduction

**DACO-KSU-FO** is a cold-applied, self-adhesive bituminous underlay which is saturated and coated with high quality SBS (Styrene-Butadiene-Styrene) modified bitumen. It has a tough 200g/m<sup>2</sup> glass fibre reinforcement and is manufactured with a single layer release film on its underside.

#### Product Description

**DACO-KSU-FO** is designed for use as a high performance underlay membrane, and is ideal for use within cold-applied roofing systems. The product can be applied to a wide range of substrates, and is compatible with **DACO-KSO** self-adhesive cap sheet.

#### Product Features

- Flame free, self-adhesive application
- Excellent low temperature flexibility at -30°C
- Tough 200g/m<sup>2</sup> reinforcement
- SBS modified bitumen
- Versatile, long-lasting material

#### Application

**DACO-KSU-FO** 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-KSU-FO** membrane correctly, ensure that the surface is dry, free of oil, fat and dust and other impurities. The membrane, which is produced with a foil on its bottom side, is adhered by removing the foil while rolling out the membrane onto the prepared surface. The membrane should be installed with an 8 cm joint overlap. All joint overlaps must be rolled out with a draw roll. Ambient and surface temperatures during the application should be at least + 5°C.

Following the application of **DACO-KSU-FO** within a multi layered roofing system, a suitable self-adhesive cap sheet (e.g. **DACO-KSO**) must be installed immediately. If it is not possible to apply the next layer immediately then the overlaps of the **DACO-KSU-FO** membrane must thermally activated and pressed down thoroughly. When using the membrane as part of a temporary or provisional roof construction the joint overlap must be thermally activated (e.g. with hot gas or hot air).

#### Chemical Resistance

**DACO-KSU-FO** 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/m <sup>2</sup> )
DACO-KSU-FO	TN618717	7.5 x 1.08	3.9

## 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/m <sup>2</sup>	3.9 (± 5%)
Thickness	DIN EN 1849-1	mm	3.00 (± 0.2)
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	1800 / 3400 (± 12%)
Tensile properties: elongation	DIN EN 12311-1	%	5 (± 2 abs)
Flexibility at low temperatures	DIN EN 1109	° C	≤ - 30
Resistance to thermal distortion	DIN EN 1110	° C	≥ + 115 / + 100

## Quality Assurance

DACO-KSU-FO 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>