

## **PRODUCT DATA SHEET**

### **Modified Torch On Felts**

#### **PRODUCT USE**

Intended for use as the Intermediate layer and final Capsheet in a high performance bituminous built-up flat roof system.

#### **COMPOSITION AND MANUFACTURE**

The base carrier consists high strength polyester sheet that is saturated then coated both sides with SBS modified bitumen. The coated material is finished with either a fine sand upper surface, or a coarse mineral upper surface to aid UV protection and a thin HDPE film lower surface that melts during installation. The membrane is cut to roll length, taped and packaged according to specification and customer requirement.

#### **INSTALLATION**

Prior to setting the specification for a torch applied built up roof system Rose Roofing recommend considering the use of a hot bonded or mechanically fixed underlay/preparation layer to avoid the fire risks associated with direct torching onto combustible substrates. Rose Roofing also recommend that a thorough and comprehensive review assessing any combustion risk of the areas surrounding the detailing be carried out before torch applying materials to such areas.

Rose Roofing's Modified Torch-On Intermediate layer and Capsheets are applied by torch-on application using a standard roofer's torch. The membrane should be heated carefully ensuring the film on the underside melts completely and there is a constant steady pool of hot bitumen across the whole sheet. Side laps must be a minimum of 75mm on sand finished products, and follow the manufactured mineral free selvedge on mineral capsheets. End laps should be a minimum of 150mm. When the Intermediate layer and Capsheets are applied they should be offset on sides and ends over the underlay joints to prevent build up of overlaps, and ensure good bond strength evenly throughout the roof system.

#### **STORAGE & HANDLING**

Do not drag rolls across rough surfaces, they should be lifted. They should be stood on their end on a dry surface. If using pallets do not stack more than 2 high. Avoid mechanical damage and wet storage conditions.

During colder periods it is recommended that rolls are stored at warmer than ambient temperature for 24 hours prior to application to help prevent damage to the membrane.

Hydrocarbon solvent based products will have a damaging effect upon these membranes, care must be taken to prevent contact with each other.

#### **PRODUCT COMPLIANCE**

The product complies with **BS EN 13707:2004+A2:2009** and **CPR 305/2011/EU**. It is CE marked under the Factory Production Control Certificate number **0836-CPR-13/F049**.

## STANDARD PRODUCTS

Modi-Torch Intermediate Layer	12mt	36kg	30 rolls per pallet
Modi-Torch Sand Capsheet	8mt	32kg	30 rolls per pallet
Modi-Torch Mineral Capsheet	8mt	36kg	25 rolls per pallet

Mineral colours available: Green, Red, Blue Grey, Mixed Brown, Charcoal.

Note: Field trials have indicated significant differences in the surface temperature between mineral finishes. Charcoal on average retained heat upto 10°C higher than Mixed Brown. For superior UV protection the lighter mineral finishes have proved more effective.

## TECHNICAL PERFORMANCE DATA AS REQUIRED BY HARMONISED STANDARD BS EN 13707

		Intermediate Sand Layer	Sand Capsheet	Mineral Capsheet
Characteristic	Specific Test ref.	Result	Result	Result
Roll length*	BS EN 1848-1	12m	8m	8m
Roll width**	BS EN 1848-1	1m	1m	1m
Weight***	BS EN 1849-1	36kg	32kg	38kg
Watertightness	BS EN 1928 method a.	PASS	PASS	PASS
Tensile strength:****	BS EN 12311-1	995 N/50mm	1260 N/50mm	1260 N/50mm
Longitudinal		630 N/50mm	860 N/50mm	860 N/50mm
Transverse				
Elongation at maximum load:	BS EN 12311-1			
Longitudinal		43%	45%	45%
Transverse		55%	58%	58%
Resistance to tearing:****	BS EN 12310-1			
Longitudinal		??N	245N	245N
Transverse		??N	245N	245N
Straightness	BS EN 1848-1	PASS	PASS	PASS
Visible Defects	BS EN 1850-1	PASS	PASS	PASS
Cold Bend Flexibility	BS EN 1109	-5°C	-5°C	-5°C
Flow Resistance at Elevated Temperature	BS EN 1110	90°C	90°C	90°C
External Fire Performance	BS EN 13501-5	F <sub>ROOF(t4)</sub>	F <sub>ROOF(t4)</sub>	F <sub>ROOF(t4)</sub>
Reaction to Fire	BS EN 13501-1	F	F	F

\*tolerance of ≥150mm

\*\*tolerance of +/-1.5%

\*\*\*tolerance of +/-7.5%

\*\*\*\*tolerance of +/-15%

Rose Roofing is continually investigating methods of improving both quality and performance and therefore reserves the right to change specifications and product composition without prior notice.

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