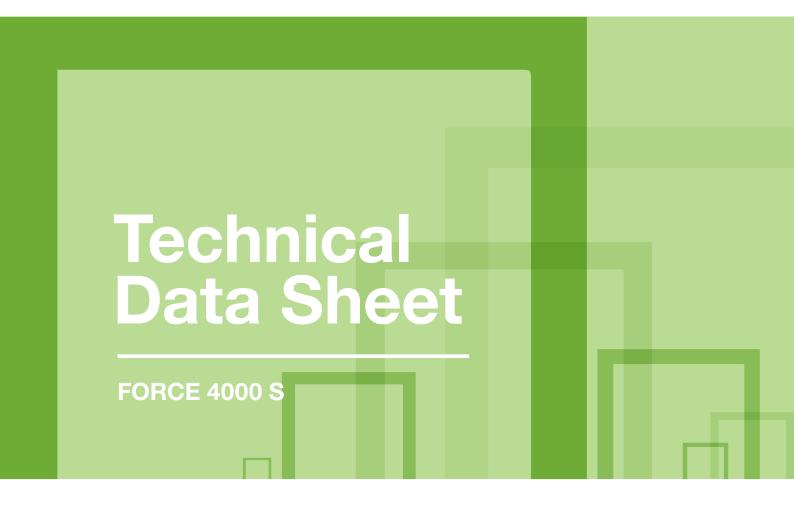


Bitumen Waterproofing



1.	Description	Force 4000 S is a stabilised polyester reinforced, SBS elastomeric modified bitumen waterproofing membrane. Its surface is finished with mineral slate
		chippings or ceramic granules. Minimum selvedge width is 8cm
2.	Use	BBA certified for use as cap sheet in mulitlayer waterproofing system on flat/pitched roofs with limited access, and in exposed and protected roof specifications. Suitable for profiled metal decks, decks made from timber/timber derivatives, concrete and cellular concrete roof slab and non-torchable insulation boards for new/refurbishment projects.
3.	Application Method	Fully or partially bonded, with fully sealed joints, using torch-on techniques to form continuous layer.
4.	Storage	Rolls to be stored upright and away from heat.
5.	Composition	(Indicative). See below.

Reinforcement (g/m²) :	Stabilised polyester	180
Binder (g/m²) :	SBS elastomer	3,800
Surface finish (g/m²) :	Mineral slates; granules	1000; 1200
Under surface finish (g/m²) :	Thermofusible film	10

Characteristics			Standards (BS)	Units	Value	Tolerance	
						Min	Max
	Length			m	8	-1%	
Dimensions	Width		EN 1848-1	m	1	-1%	
	Straightness			-	Pass		
	Nominal roll weight		EN 1849-1	kg	42	20.5	23.3
	Thickness (on finished product)			mm	4	2.50	2.80
	New product		EN 1850-1	-	None		
Visible defects	After ageing to EN 1297			-	NA		
Adhesion of granules			EN 12039	%	15	-	-
Resistance to	Longitudinal Cross direction		EN 12310-1	N	NA	-	-
tearing (nail shank)					NA	-	-
Tensile properties:	Longitudinal		EN 12311-1	N/50mm	600	500	900
maximum tensile force	Cross direction				600	500	750
Tensile properties:	Longitudinal Cross direction		EN 12311-1	%	35	25	60
elongation					35	25	60
	Maximum force	Selvedge	EN 12316-1	N/50mm	NA	-	-
Peel resistance of		End joint			NA	-	-
joint	Average force	Selvedge			NA	-	-
		End joint			NA	-	-
Shear resistance	Maximum force	Selvedge	EN 12317-1	N/50mm	600	500	-
of joint		End joint			600	500	-
Flexibility at low	Surface		EN 1109	°C	NA	≤	
temperature	Under surface				-15	≤	
Flow resistance at elevated	New product		EN 1110	°C	100	≥	
temperature	After ageing to EN 1296				100	-	-
Resistance to impact			EN 12691	mm	700	≤	
Resistance to static loading			EN 12730 (A)	kg	20	≥	
Dimensional stability			EN 1107-1	%	0.5	≤	
Form stability under cyclic temperature change			EN 1108	%	NA		

Water vapour	New product	EN 1931	-	μ=20000	
transmission properties	After ageing to EN 1296		-	NA	
Watashishtaaa	New product	EN 1928	-	Pass	<10kPa
Watertightness	After ageing to EN 1296		-	NA	< TUKF d
Watertightness after stretching at low temperature		EN 13897	%	NA	
Reaction to fire		EN 13501-1	-	NPD	
Resistance to root penetration		EN 13948	-	NA	

NA=not applicable due to use of product.

NPD=No Performance determined.

The manufacturer reserves the right to modify, at any time, the characteristics of this product.

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