

# Technical Data Sheet

## HYRANGER TS CPV Base and Underlayer

<b>1. Description</b>	Hyranger TS CPV is a stabilised polyester reinforced SBS elastomeric modified bitumen waterproofing membrane. Minimum side lap width is 6cm shown by a blue line. A second blue line 16cm from the edge allows the material to be identified after installation.
<b>2. Use</b>	Base/intermediate layer in multi-layer flat roof waterproofing system. Also used as a top layer under site applied protection and a peel stop layer in Excel FM torch applied single layer system.
<b>3. Application method</b>	Fully or partially bonded, with fully sealed joints, by torching technique to form continuous layer.
<b>4. Storage</b>	Rolls to be stored upright and away from heat.
<b>5. Composition</b>	(Indicative).

<b>Reinforcement (g/m<sup>2</sup>)</b>	Stabilised polyester	120
<b>Binder (g/m<sup>2</sup>)</b>	SBS elastomer	3,100
<b>Surface finish (g/m<sup>2</sup>)</b>	Macro perforated film+sand	100
<b>Under surface finish (g/m<sup>2</sup>)</b>	Thermofusible film	10

Characteristics		Standards (BS)	Units	Value	Tolerance		
					Min	Max	
Dimensions	Length	EN 1848-1	m	10 or 7	-1%		
	Width		m	1	-1%		
	Straightness		-	Pass			
	Nominal roll weight		kg	36 (10m) 25 (7m)			
	Thickness (on finished product)	EN 1849-1	mm	2.65	2.50	2.80	
Visible defects	New product	EN 1850-1	-	None			
	After ageing to EN 1297		-	NA			
Adhesion of granules		EN 12039	%	NA	-	-	
Resistance to tearing (nail shank)	Longitudinal	EN 12310-1	N	NA	-	-	
	Cross direction			NA	-	-	
Tensile properties: maximum tensile force	Longitudinal	EN 12311-1	N/50mm	400	300	500	
	Cross direction			275	230	350	
Tensile properties: elongation	Longitudinal	EN 12311-1	%	15	10	50	
	Cross direction			15	10	50	
Peel resistance of joint	Maximum force	EN 12316-1	N/50mm	Selvage	NA	-	-
				End joint	NA	-	-
	Average force			Selvage	NA	-	-
				End joint	NA	-	-
Shear resistance of joint	Maximum force	EN 12317-1	N/50mm	Selvage	NA	-	-
				End joint	NA	-	-
Flexibility at low temperature	Surface	EN 1109	°C	-15	≤		
	Under surface			-15	≤		
Flow resistance at elevated temperature	New product	EN 1110	°C	100	≥		
	After ageing to EN 1296			NA	-	-	
Resistance to impact		EN 12691	mm	600	≤		
Resistance to static loading		EN 12730 (A)	kg	10	≥		
Dimensional stability		EN 1107-1	%	0.3	≤		
Form stability under cyclic temperature change		EN 1108	%	NA			

Characteristics		Standards (BS)	Units	Value	Tolerance	
					Min	Max
Water vapour transmission properties	New product	EN 1931	-	μ=20000		
	After ageing to EN 1296		-	NA		
Watertightness	New product	EN 1928	-	Pass	<10kPa	
	After ageing to EN 1296		-	NA		
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.

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