

# PRODUCT DATA SHEET

## HYRENE (HYRANGER) 40 PY FP

### DESCRIPTION

HYRANGER 40 PY FP is a stabilised polyester reinforced SBS elastomeric modified bituminous waterproofing membrane. Its surface is finished with coloured mineral chippings and its under surface with thermofusible film. Minimum selvedge width is 6cm.

### USE

Cap sheet for use in the HYRANGER TS, HYPERFIX, HYRANGER SPOT, TOPFLAM and TOPFIX multi-layer waterproofing systems for flat roofs.

### APPLICATION METHOD

Torched.

### STORAGE

Rolls to be stored upright and away from heat.

### COMPOSITION

(indicative)

Reinforcement (gm/m <sup>2</sup> ) :	Stabilised polyester	180
Binder (gm/m <sup>2</sup> ) :	SBS elastomer	3,300
Surface finish (gm/m <sup>2</sup> ) :	Mineral slates	1,000
Under surface finish (gm/m <sup>2</sup> ) :	Thermofusible film	10

### CHARACTERISTICS

	STANDARD(BS)	UNITS	VALUES	Tolerance		
				Min	Max	
Dimensions	EN 1848-1	Length	10		-1%	
		Width	1		-1%	
			Straightness	Pass		
			Nominal roll weight	48.0		
		EN 1849-1	Thickness (selvedge)	3.20	3.05	3.40
Visible defects	EN 1850-1	New product	None			
		After ageing to EN 1297	NA			
Adhesion of granules	EN 12039	%	15	0	30	
Resistance to tearing (nail shank)	EN 12310-1	Longitudinal	NA	-	-	
		Cross direction	NA	-	-	
Tensile properties : maximum tensile force	EN 12311-1	Longitudinal	750	500	1030	
		Cross direction	750	500	900	
Tensile properties : elongation	EN 12311-1	Longitudinal	35	25	55	
		Cross direction	35	25	60	
Peel resistance of joint	EN 12316-1	Maximum force	Selvedge	NA	-	-
			End joint	NA	-	-
		Average force	Selvedge	NA	-	-
			End joint	NA	-	-
Shear resistance of joint	EN 12317-1	Maximum force	Selvedge	NA	-	-
			End joint	NA	-	-
Flexibility at low temperature	EN 1109	Surface	-16		≤	
		Under surface	-16		≤	
Flow resistance at elevated temperature	EN 1110	New product	100		≥	
		After ageing to EN 1296	110	100	120	
Resistance to impact	EN 12691	mm	NA		≤	
Resistance to static loading	EN 12730 (A)	kg	NA		≥	
Dimensional stability	EN 1107-1	%	0.3		≤	
Form stability under cyclic temperature change	EN 1108	%	NA			
Water vapour transmission properties	EN 1931	New product	-	μ=20000		
		After ageing to EN 1296	-	NA		
Watertightness	EN 1928	New product	-	Pass	<10 kPa	
		After ageing to EN 1296	-	NA		
Watertightness after stretching at low temperature	EN 13897	%	NA			
Reaction to fire	EN 13501-1	-	F			
Resistance to root penetration	EN 13948	-	NA			
Dangerous substances consult :	-	-	None			

Dangerous substances consult :  
<http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm>  
NA=not applicable due to use of product.