

PRODUCT DATA SHEET

n° of certification organisation: 0679
Year mark was 1st fixed : 2006

HYRENE (HYRANGER) TS PY FMP

Technical ref:
▶ AT HYRANGER TS

DESCRIPTION

HYRANGER TS PY FMP is a stabilised polyester reinforced SBS elastomeric modified bituminous waterproofing membrane. Minimum side lap width is 6cm shown by a red line. A second red line 16cm from the edge allows the material to be identified after installation.

USE

Base or intermediate layer of the HYRANGER TS multi-layer waterproofing system for flat roofs. It can also be used as the top layer under site applied added protection.

APPLICATION METHOD

Torched.

STORAGE

Rolls to be stored upright and away from heat.

COMPOSITION

(indicative)

Reinforcement (gm/m ²) :	Stabilised polyester	180
Binder (gm/m ²) :	SBS elastomer	2,450
Surface finish (gm/m ²) :	Macroperforated film+sand	100
Under surface finish (gm/m ²) :	Thermofusible film	10

CHARACTERISTICS

	STANDARD(BS)	UNITS	VALUES	Tolerance		
				Min	Max	
Dimensions	EN 1848-1	Length	10		-1%	
		Width	1		-1%	
		Straightness	-	Pass		
	EN 1849-1	Nominal roll weight	41.7			
		Thickness (on finished product)	2.80	2.65	3.00	
Visible defects	EN 1850-1	New product	-	None		
		After ageing to EN 1297	-	NA		
Adhesion of granules	EN 12039	%	NA	-	-	
Resistance to tearing (nail shank)	EN 12310-1	Longitudinal	NA	-	-	
		Cross direction	NA	-	-	
Tensile properties : maximum tensile force	EN 12311-1	Longitudinal	690	570	810	
		Cross direction	540	440	640	
Tensile properties : elongation	EN 12311-1	Longitudinal	40	30	50	
		Cross direction	50	40	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	NA	-	-	
Resistance to impact	EN 12691	mm	20		≤	
Resistance to static loading	EN 12730 (A)	kg	20		≥	
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 : http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm NA=not applicable due to use of product.	-	-	None			