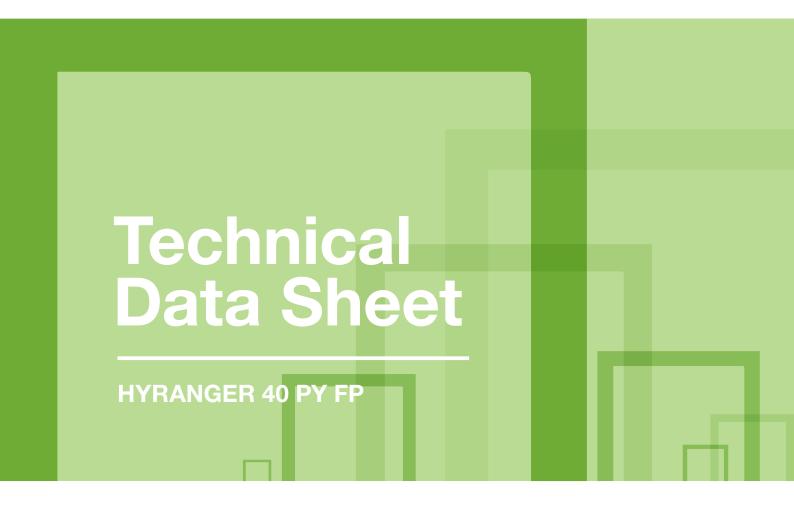
Ref: 14100XX





| 1. | Description | Hyranger 40 PY FP is a stabilised polyester reinforced SBS elastomeric modified bitumen waterproofing membrane. Its surface is finished with coloured mineral chippings and its under surface with thermofusible film. Minimum selvedge width is 8cm | | | |
|----|--------------------|--|--|--|--|
| 2. | Use | Capsheet for use in warm roof multilayer Hyranger waterproofing systems for flat roofs. | | | |
| 3. | Application Method | Installed fully bonded, with fully sealed joints, using torch-on technique, 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 | 3,000 |
| Surface finish (g/m²) : | Mineral slates | 1,000 |
| Under surface finish (g/m²) : | Thermofusible film | 10 |

| Characteristics | | | Standards (BS) | Units | Value | Tolerance | |
|--|--------------------------------------|-----------------|----------------|--------|----------------------|-----------|------|
| | | | | | | Min | Max |
| | Length | | | m | 5 or 10 | -1% | |
| Dimensions | Width | | EN 1848-1 | m | 1 | -1% | |
| | Straightness | | | - | Pass | | |
| | Nominal roll weight | | EN 1849-1 | kg | 45 (10m); 22 (5m) | | |
| | Thickness (on fini | shed product) | | mm | 3.5 | 3.30 | 3.70 |
| Visible defects | New product | | EN 1850-1 | - | None | | |
| visible delects | After ageing to EN 1297 | | | - | NA | | |
| Adhesion of granules | | EN 12039 | % | 15 | - | - | |
| Resistance to | Longitudinal | | EN 12310-1 | | NA | - | - |
| tearing (nail shank) | Cross direction | Cross direction | | N | NA | - | - |
| Tensile properties: | Longitudinal | | | | 800 | 500 | 900 |
| maximum tensile force | Cross direction | | EN 12311-1 | N/50mm | 800 | 500 | 750 |
| Tensile properties: | Longitudinal Cross direction | | EN 12311-1 | % | 45 | 25 | 60 |
| elongation | | | | | 45 | 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 | NA | - | - |
| of joint | | End joint | | | NA | - | - |
| Flexibility at low | Surface | | EN 4400 | 20 | -15 | ≤ | |
| temperature | Under surface | | EN 1109 | °C | -15 | ≤ | |
| Flow resistance at elevated | New product After ageing to EN 1296 | | EN 1110 | °C | 100 | ≥ | |
| at elevated temperature | | | | | 90 | - | - |
| Resistance to impact | | | EN 12691 | mm | NA | ≤ | |
| Resistance to static loading | | | EN 12730 (A) | kg | NA | ≥ | |
| Dimensional stability | | | EN 1107-1 | % | 0.5 | ≤ | |
| Form stability under cyclic temperature change | | | EN 1108 | % | NA | | |

| Water vapour transmission | New product | EN 1931 | - | μ=20000 | |
|--|-------------------------|------------|---|---------|--------|
| properties | After ageing to EN 1296 | | - | NA | |
| Watertightness | New product | EN 1928 | - | Pass | <10kPa |
| waterugntness | After ageing to EN 1296 | | - | NA | CIUNTA |
| 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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