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DOP 1904.01.EN
CC5, CC8, CC13,

European Assessment Document: EAD 080009-00-0301
European Technical Assessment: ETA-19/0086
Technical Assessment Body: British Board of Agrément
Notified Body: 0836

System of assessment and verification of consistency of performance of the product is 2+

Intended Uses:

The products are for use in erosion control applications and the intended uses can be outlined as:

Channel Lining,
Slope Protection,
Bund Lining,
Remediation of Concrete Structures,
Culvert Lining,
Weed Suppression.

Declared Performance:

| Essential Characteristic | | Unit | Method | Product Performance | | |
|---|---|-------------------|----------------|---------------------|------|-------|
| | | | | CC5 | CC8 | CC13 |
| Mechanical Resistance and Stability | | | | | | |
| 1 | Thickness (uncured) | mm | EN 1849-2 | >4.5 | >7.5 | >12.5 |
| 2a | Mass per Unit Area (uncured) | kg/m ² | EN 1849-2 | 7 | 12 | 19 |
| 2b | Density (uncured) | kg/m ³ | EN 1849-2 | 1500 | 1500 | 1500 |
| 3a | Initial Flexural Strength | MPa | ASTM D8058 | 4.0 | 4.0 | 4.0 |
| 3b | Final Flexural Strength | MPa | ASTM D8058 | 10.0 | 6.0 | 6.0 |
| 4 | Static Puncture Resistance | | | | | |
| 4a | - Puncture Force | kN | EN ISO 12236 | 2.0 | 4.0 | 4.0 |
| 4b | - Puncture Displacement | mm | | 34.4 | 43.4 | 5.35 |
| 5 | Dynamic Puncture Resistance Depth of Perforation | mm | EN ISO 13433 | 0 | 0 | 0 |
| 6 | Pyramid Puncture Resistance | kN | EN 14574 | 4.0 | 7.0 | 12.5 |
| 7 | Strength of Internal Linking Fibres | kN/m | EN ISO 13426-2 | 4.0 | 4.5 | 5.0 |
| Safety and Accessibility in Use | | | | | | |
| 9 | Durability Retained Initial Flexural Strength | | | | | |
| 9a | - Weathering (UV) Resistance | % | EN 12224 | 72.4 | | |
| 9b | - Microbiological Resistance | % | EN 12225 | 108 | | |
| 9c | - Leaching Resistance Method A <i>Leaching by hot (de-ionized) water</i> | % | EN 14415 | 115 | | |
| 9d | - Leaching Resistance Method B <i>Leaching by aqueous alkaline liquids (saturated Ca(OH)₂)</i> | % | | 84 | | |
| 9e | - Leaching Resistance Method C <i>Leaching by organic alcohols (30% vol methanol, 30% vol isopropanol, 40% vol glycol)</i> | % | | 99 | | |
| 9f | - Thermal Ageing | % | EN 14575 | 71 | | |
| Sustainable Use Of Natural Resources | | | | | | |
| 10 | Abrasion Resistance Cementitious Barrier Abrasion Depth of Wear | mm/1000 cycles | ASTM C1353 | 0.2 | | |
| 11 | Freeze - Thaw - Retained Initial Flexural Strength | % | EN 12467 | 101 | | |

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