Rubber Mulch Test Certificates

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Test subject	Test standard	Test method	Result
Critical fall height (HIC)	BS EN 1177:2018	Ecobond 40mm onto concrete	1.56m
Critical fall height (HIC)	BS EN 1177:2018	Ecobond 50mm onto concrete	1.58m
Critical fall height (HIC)	BS EN 1177:2018	Ecobond 60mm onto concrete	1.74m
Critical fall height (HIC)	BS EN 1177:2018	Ecobond 40mm with 20mm SBR onto concrete	1.82m
Critical fall height (HIC)	BS EN 1177:2018	Ecobond 40mm with 40mm SBR onto concrete	2.28m
Critical fall height (HIC)	BS EN 1177:2018	Ecobond 40mm with 70mm SBR onto concrete	2.77m
Critical fall height (HIC)	BS EN 1177:2018	Ecobond 40mm with 90mm SBR onto concrete	>3 m
Critical fall height (HIC)	BS EN 1177:2018	Ecobond 40mm onto 100mm of compacted MOT Type 1	2.4m
Critical fall height (HIC)	BS EN 1177:2018	Ecobond 40mm with 24mm ProBase Pad onto concrete	2.05m
Critical fall height (HIC)	BS EN 1177:2018	Ecobond 40mm with 38mm ProBase Pad onto concrete	2.78m
Critical fall height (HIC)	BS EN 1177:2018	Ecobond 40mm with 50mm ProBase Pad onto concrete	2.99m

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Toxicity – Oral	BS EN 71-3 1995	Measurement of migration of certain elements by ICP-OES analysis	Meets all requirements for toy safety regulations
Toxicology – Skin contact	PAH – XP X 33-012	Breaking down the materials found in the Ecobond surface into individual chemical elements	Benzo Perylene assessed at 0.21 (range is 1-20) Total range sum assessed at a max of 43.74 (range is 10-200)
Flammability	BS EN 7188; 1998 + A2;2009	Measurement of affected radius when metal, heated to 900°C, is placed on the surface	Passed. Lowest possible risk category
Slip resistance	BS EN 7188; 1998 + A2;2009	Bi-directional Pendulum slider, both wet and dry	Minimum dry 101 Minimum wet 56
Resistance to abrasive wear	BS EN 7188; 1998 + A2;2009	5000 tests with a loaded abrasive wheel, measured every 1000 cycle blocks	Wear index of 0.45. Wear ratio of 1.83. Excellent results also showed product integrity did not deteriorate as it got further into the test
Resistance to indentation	BS EN 7188; 1998 + A2;2009	Use of a steel pin, material tested both under load and the recovery measured	Passed with no cracking, splitting or perforation observed
Porosity	BS EN 12616:2013	Water ponded in two concentric cylinders sealed onto surface, outer cylinder prevents lateral flow of water from the inner cylinder, rate of entry into the surface from inner cylinder measured	62,977mm/hr