

DESCRIPTION

Developed using a blend of thermoplastic materials and elastomeric inclusions to form a polymeric alloy. Sheets of FC444 are laid on the structure (typically bridge decks) before laying the ballast.

Edge joining strips 75mm wide are used for welding sheets together using simple heat gun technology, providing a continuous layer to protect the bridge structure against the abrasive effects of the ballast.

APPLICATION

Ballasted track, ballast protection and substructure protection.

TYPICAL PHYSICAL PROPERTIES

Test	Method	Conditions	Data	Units
Tensile Strength	ISO 37		5.4	MPa
Elongation at Break	ISO 37		250	%
Abrasion Resistance	Taber	3000 cycles, 1000g	0.69	g loss
"	Taber	3000 cycles, 1000g	0.23	mm loss
Electrical Resistance	BS 903 pt. C2	100v dc	1.1 x 10 ¹¹	Ωcm
Thickness (Nominal)			4.5	mm
Weight (Approx.)			5.2	kg/m ²
Water Absorption			0.008	g/cm ³

METHOD

Mats are laid directly onto the substructure, and are then welded together with bonding strips using a heat gun.

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