ARMATEX®

Asphalt Pavement Reinforcement

Main applications:

- Constructing new roads and repairing damaged sections of asphalt surfaces of roads, motorways, parking, airport surfaces and access ways.
- Expanding thoroughfares and road lanes.
- Asphalt reinforcing at locations subject to intensive vehicle braking or accelerating, important junctions, bus stops etc.

Advantages:

- Considerably lengthens the durability of asphalt layers in road surfaces.
- Significantly reduces the occurrence of cracks.
- Reduces the formation of ruts in areas of high traffic loading.
- The construction of the geocomposite guarantees optimum adhesion with the asphalt layers.
- White colour guarantees the transparency of its penetration into the asphalt mixture.
- Material resistance up to 220° C.
- Easy installation without the necessity of fixing to surface by nails.
- High resistance to damage during installation.

- **Armatex® RS: (woven PET grid, nonwoven PET geotextile)**

Geocomposite of woven polyester geogrid, made of high tenacity poltester yarns and nonwoven polyester geotextile, for reinforcement of asphalt pavements.

- **Armatex® RSR: (knitted PET grid, nonwoven PET or PP geotextile)**

Geocomposite of a knitted polyester geogrid and polyester or polypropylene nonwoven geotextile for reinforcement of asphalt pavements.

- **Armatex® RSM: (knitted PVA grid, nonwoven PET or PP geotextile)**

Geocomposite of a knitted polyvinylalcohol geogrid and polyester or polypropylene nonwoven geotextile for reinforcement of asphalt pavements.

- High tensile strength at low elongation.
- Very low strain at tensile strength (4% at maximum load).
- Very low fragility and optimal flexibility of material.

Physical Properties

Armatex RS: woven geocomposite for asphalt reinforcing (woven grid made from high tenacity PET yarns and PET nonwoven geotextile)

Technical	Method	Units	20/20	40/40	50/50	60/60	80/80	100/100
Mesh size	ISO 4648	mm x mm	20 x 20 or 35 x 35					
Tensile strength EN ISO 10319	MD min.	kN/m	25	45	55	70	90	110
	CD min.	kN/m	25	45	55	70	90	110
	tolerances MD, CD		-5	-5	-5	-10	-10	-10
Strain at maximum load EN ISO 10319	MD	%	12.5	12.5	12.5	13	13	14.5
	CD	%	12.5	12.5	12.5	13	13	14.5
	tolerances MD, CD		±2.0	±2.5	±2.5	±2.5	±2.5	±2.5
Width (standard)		m	5					
Length (standard)		m	100					
Area of roll		m^2	500					

Physical Properties

Armatex RSR: knitted geocomposite for asphalt reinforcing (knitted grid made from high tenacity PET yarns and PET or PP nonwoven geotextile)

Technical	Method	Units	20/20	40/40	50/50	60/60	80/80	100/100
Mesh size (standard)			Can be made with various mesh sizes					
Nonwoven	EN 965	g/m^2	110	110	110	110	110	110
Tensile strength EN ISO 10319	MD min.	kN/m	25	45	55	70	90	110
	CD min.	kN/m	25	45	55	70	90	110
	tolerances MD, CD		-5	-5	-5	-10	-10	-10
Strain at maximum load EN ISO 10319	MD	%	10	10	10	10	10	10
	CD	%	10	10	10	10	10	10
	tolerances MD, CD		±3.5	±3.5	±3.5	±3.5	±3.5	±3.5
Weight approx.	EN 965	g/m^2	226±40	250±50	315±60	430±70	470±100	500±100
Width (standard)		m	5					
Length (standard)		m	100					

Physical Properties

Armatex RSM: knitted geocomposite for asphalt reinforcing (knitted grid made from PVA yarns and PET or PP nonwoven geotextile)

Technical	Method	Units			50/50			100/100
Mesh size					Can be made with various mesh sizes			
Tensile strength EN ISO 10319	MD min.	kN/m			55			110
	CD min.	kN/m			55			110
	tolerances MD, CD				-5			-10
Strain at maximum load EN ISO 10319	MD	%			4			4
	CD	%			4			4
	tolerances MD, CD				±1.5			±1.5
Width (standard)		m	5					
Length (standard)		m	100					
Area of roll		m^2	500					

Disclaimer

The information presented herein, while not guaranteed, is to the best of our knowledge true and accurate.

While every effort has been made to provide accurate and reliable information, it is up to the user of this brochure to verify all information, including designs it might be based upon, with an independent source. Application of this data must be made on the basis of responsible professional judgement.

Except when agreed to in working conditions of use, no warranty expressed or implied is made regarding the performance of any product, since the manner of use and handling is beyond our control.