

TECHNICAL DATA SHEET

POLIRTEC 501

APPLICATION:

POLIRTEC 501 is a linear structure copolymer of styrene and butadiene used for reducing thermal susceptibility and increasing mechanical resistance of Hot Mix Asphalts.

POLIRTEC 501 is a 69/31 butadiene/styrene thermoplastic co-polymer, polymerized in solution.

POLIRTEC 501 is an excellent modifier for asphalt applications including self-adhesive roofing membrane and sealant.

DOSAGE AND APPLICATION CONDITIONS:

Dosage varies from 1% to 10% w/w on bitumen depending on the production application.

POLIRTEC 501 is normally used to produce Polymer Modified Asphalt (PMB) and membranes and it is dispersed in the bitumen using appropriate manufacturing equipment.

CHEMICAL FAMILY:

POLIRTEC 501 is 69/31 butadiene/styrene thermoplastic co-polymer, polymerized in solution and has a radial structure.

STORAGE:

Store at room temperature in closed bags. Avoid moisture.

PACKAGE:

It is presented as free flowing porous crumb making easy its handling and dissolution or in micronized powder (in this case the product assumes the denomination **POLIRTEC 501M**)

POLIRTEC 501 is delivered in 750 kg big-bags or in 20 kg self-melting plastic bags.

SAFETY:

Not dangerous (According to EEC Directives)

For further information see the Safety Sheet

PHYSICAL AND CHEMICAL PROPERTIES:

Properties	Test method	Value
Toluene solution viscosity 25%	MA 04-3-064	5 Pa-s
Toluene solution viscosity 5,23%	MA 04-3-003	13 cSt
Volatile matter, % max	ASTM D5668	0.4
Total styrene (on polymer), %	ASTM D5775	31
Hardness, Shore A	ASTM D2240	76
Insoluble in toluene, 325 mesh, %	MA 04-03-018	< 0.1
Ashes, %	ASTM D5669	0.4

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