Lucobit 1210AC

Polyethylene Copolymer

Lucobit AG

Message:

Lucobit® 1210AC is a mixture of ethylene copolymers and special bitumen. The resulting formulation is a concentrate or "masterbatch".
Lucobit® 1210AC consists of thermoplastic polyolefins. Addition of Lucobit to bitumen increases its viscosity and broadens the range of plasticity. Depending on the proportion of Lucobit 1210AC that was added the minimum value of the Fraass breaking point of 1210AC modified bitumen decreases and the ring and ball softening point increases. Penetration values decline accordingly. Ductility determined according to DIN EN 12591 decreases, however, the values ascertained for the so-called ductility at low temperatures are more favourable than those for standard bitumen without addition of Lucobit.
Compared with other standard binder Lucobit 1210AC displays significant advantages in improving resistance to deformation. Rut formation tests at high temperatures demonstrated that asphalt can bear a two- to threefold load when modifying it with thermoplastics or altering binder viscosity by adding Lucobit. The low temperature properties of Lucobit 1210AC modified asphalt also improve significantly.
Applications
Even relatively small amounts of Lucobit 1210A in asphalt mixtures improve:
resistance to mechanical stress, in particular deformation and wear
stability/rigidity and reduce the tendency to flow when hot and under load
low temperature flexibility
ageing behaviour
Examples for application:
s-wearing courses to ZTV-Asphalt - StB
poured asphalt, also on sloping surfaces (ramps)
stone mastic asphalt
special asphalt surfaces, e.g. porous asphalt
thin bituminous wearing courses (hot laying)

General Information			
Features	Chlorine Free		
	Good dimensional stability		
	Flexibility at low temperatures		
	Rigidity, high		
	Copolymer		
	Environmental protection		
	Good heat aging resistance		
	Good stability		
Uses	Asphalt modification		
	Masterbatch		
Appearance	Black		
Forms	Particles		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.970	g/cm³	ISO 1183
Apparent Density	0.50	g/cm³	ISO 60
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strain (Break, 23°C)	800 - 900	%	ISO 527-2

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