Selena
Advanced chemistry for highways

Technical Data Sheet

Viscodor Bitumen Modifiers

Description

Viscodor modifiers are multi-component compositions based on modified synthetic waxes. When added to bitumen, they significantly reduce roadway deformation, increase resistance to rutting and improve the adhesion properties of the binder.

In addition, modifiers allow the temperature range of asphalt concrete pavement performance to be extended, they work as temperature reducing or energy saving adhesive additives in bitumen.

Viscodor PV-1 is a multi-component additive based on synthetic waxes with high adhesion effect even at low dosage. The received binder has high stability at storage for a long time (does not stratify).

Viscodor PV-2 – is a multi-component additive based on modified synthetic waxes. It allows to significantly increase the softening temperature of the binder, while increasing the temperature range of bitumen performance. Increases the adhesion of the binder.

Dosage

Concentration: 1 –3% of bitumen weight.

Average efficient dosage of the preparation:
Viscodor PV-1 – 1.0% of bitumen weight, Viscodor PV-2 – 1.5% of bitumen weight.

Main Advantages

Enhanced asphalt concrete properties
Increases the efficiency of road bed deformation resistance, increases the asphalt concrete stiffness and water resistance, improves the rutting resistance factor.

Improved adhesion of the binder
A thermostable adhesive additive has been introduced into the modifiers, which provides improved bonding of the binder with stone materials to asphalt concrete.

Simplified bitumen modification
The agent is compatible with all types of road bitumens and bitumen-containing materials. The modifier easily dissolves in bitumen already at 150°C with a help of a standard agitator (no colloid agitator required). The produced binder possesses high shelf stability over a long period of time (no separation).

Advanced producibility of the process
Due to quick modification enables prompt transition of the asphalt concrete plant work mode from conventional asphalt concrete to polymer-modified one at any time. No need to transport the ready-made polymer-modified binder to the application location.

Properties of «warm» mixes
Bitumen with the agent in an amount not exceeding 1% enables producing “warm” mixes and save energy both in the course of production and laying (up to 30°C lower than the asphalt concrete with SBS). This results in saving fuel and reducing CO2 emissions and allows to extend the road-construction season.

Specifications

	Viscodor PV-1	Viscodor PV-2
Density at 27°C, кг/м³	1000-1300	920-970
Dripping temperature no more than, ° C	110	145
Binder adhesion to the aggregate of the mixture in accordance with GOST 12801 at least	4 - 5 points	4 - 5 points

Guaranteed storage life is 6 months from the date of production.

Package - bags polypropylene from 20 to 40 kg and more (big-bags).

The specific nature of the raw materials used and the production technology have a significant impact on the end result. Our employees are ready to answer all your questions and assist you in selecting the optimal concentration of the additive for the specific composition of the asphalt concrete mixture.

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