

STARPHOS 04

CHEMICAL BITUMEN MODIFIER BASED ON 115% PPA

STARPHOS 04 is an inorganic acid which already in small quantities is able to modify chemically the bitumen, improving the rheologic properties, reducing Penetration and increasing softening point.

Chemical-Physical Properties

Appearance at 25 °C	Viscous liquid
Colour	Clear
Density	2,02 g/cm ³
Kinetic viscosity at 60 °C	Appr. 70 cSt
pH (1 g/100ml water)	<2
Boiling point	> 275 °C
Solubility in water	soluble

Applications

STARPHOS 04 must be added to the bitumen and mixed by stirring. The resulting modified bitumen depends by the used raw bitumen source and must be previously in. The application is recommended for roads with high traffic loads and to increase the suitable temperature range of the final asphalt. The produced bitumen will show expanded thermoplastic interval with improved high temperature resistance and decreased rutting

Advantages

- decreased penetration;
- increased softening point (R&B), and higher thermoplastic interval;
- only small viscosity increase;
- dispersion of asphaltens;
- higher deformation resistance;

Modality of use

STARPHOS 04 dosage varies in accordance to the modification required and the used raw bitumen. Prior laboratory investigation of reactivity between used bitumen and STARPHOS 04 are strictly necessary. Normally the dosage is made from 0,2% to 2% of the bitumen.

STARPHOS 04 must be added to the bitumen and mixed by stirring for approx. 30 minutes at 160 °C.

IMPORTANT: Bitumen previously added with amine type adhesion promoter should not be used as it will reduce reactivity. Cationic adhesion promoters like STARDOPE[®] 130P are suggested.

Package

The product is delivered in 340 kg plastic drums. On request it is also possible to deliver STARPHOS 04 as bulk in tank trucks or in IBC-container.

Storage

STARPHOS 04 can be stored for 36 months in original pack but closed. Exposition to direct sunlight and very hot or cold temperatures should be avoided. With decreasing temperatures will increase viscosity and a reversible crystallisation.

Warning

STARPHOS 04 is corrosive. Use always suitable personal protection. For more information on classification, measures of protection and provisions in case of fire, please see the Safety Data Sheet available upon request.

The present card contains technical information of our products at our best knowledge. STAR ASPHALT S.p.A. assumes responsibility exclusively for the applications carried out under its directly supervision.

STAR ASPHALT S.p.A.

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