



MAMZPAVE ARA

ANTI RUTTING ADDITIVE FOR HIGH PERFORMANCE ASPHALT MIX

Description

MAMZPAVE ARA is a proprietary blend of polymers designed to work as Anti-Rutting Additive. It is especially developed to resist the rutting of hot mix asphalt courses. It has the advantages of high temperature stability, fatigue resistance performance, water stability and the low temperature crack resistance. It can be applied to various of asphalt mixture and greatly improve the performance of asphalt mixture.

Uses

- Driveway
- Airstrip
- Bus Lanes
- Highway
- Motorways

Technical Specs

Item	Unit	Index
Particle Size	mm	≤6
Density	g/cm ³	0.95-1.00
Softening Point	°C	135 -140
Melting Index	g/10min	7-9
Polymer Content	%	>95

Working Principle

When the asphalt mixture is mixing, adding the **MAMZPAVE ARA** Anti-rutting additive to make it full melting; The polymer matrix combined with asphalt sufficiently to form the high strength and stability of solidified structure. This improves the softening point of asphalt, strengthens asphalt consistence, lowers susceptibility to temperature variation.

MAMZPAVE ARA anti-rutting additive is coated on the aggregate surface after melting, it will create bonding inside the granulometric skeleton. That makes the structure of asphalt mixture stable.

MAMZPAVE ARA Anti-rutting additive reacts with asphalt after melting, thus elastic recovery properties of asphalt were improved, consequently it allows a significant enhancement of toughness of asphalt mixture. At high temperature, **MAMZPAVE ARA** anti-rutting additive can make the road to restore elasticity, improve the asphalt pavement deformation.

After melting, part of **MAMZPAVE ARA** anti-rutting additive draws into plastic fiber on the process of

Mamz Asphalt Technologies (Pvt.) Ltd.

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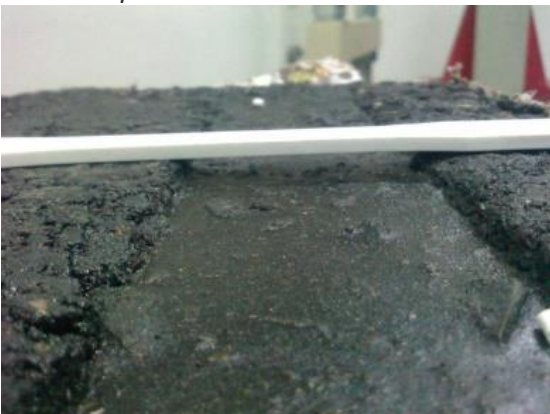
MAMZPAVE ARA

mixing, the asphalt mixture has good adhesion between aggregates and the binder.

Salient Features

By the following figures show, after adding **MAMZPAVE ARA** anti-rutting additive, the anti-rutting performance of asphalt mixture has been strengthened greatly, its dynamic stability is over simple or any other modification of asphalt mixture.

The Matrix Asphalt Mixture without ARA



The Matrix Asphalt Mixture with ARA



After adding **MAMZPAVE ARA** anti-rutting agent, intensity ratio of frozen and melted of asphalt mixture has improved significantly. It can improve the water stability of asphalt mixture, enhance the ability of resistance to water damage of asphalt pavement.

With reference to the AASHTO TP8 standard trabecular experiments after adding **MAMZPAVE ARA** Anti Rutting Additive, anti-fatigue performance of asphalt pavement has been enhanced, thus prolong the service life of road.

Dosage

MAMZPAVE ARA anti-rutting additive can be dozed in asphalt mixes in a range of 1.5 % to 6 %. To start with a test doze of 2.5 % may be checked initially to have initial lab results. However, the final dosage will be determined by the lab trials or field experience. Higher the doze , higher will be the anti rutting performance of mix.

Packing

The product is supplied in a bag of 25 kg. The bigger packing is also available if so required.

Storage

The product is advised to be stored at room temperature. An open to sky storage may adversely affect the performance.

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