BITULASTIC AC POWDER

AC Powder Mix

Description
Bitulastic AC Powder is a Polymer Modifier additive for the use in Asphaltic Concrete Pavements. Asphalt Concrete blended with Bitulastic Aeromix Powder has a higher Softening Point, a lower Penetration and excellent Low Temperature Flexibility.

Uses
Traffic Intersections – To:
- Reduce Shoving (Rutting)
- Reduce Cracking
- Increase Skid Resistance
- Withstand Load Pressures

Heavy Traffic Roads and Slow Moving Traffic Lanes – To:
- Increase the Resistance to Deformation of the Pavements
- Reduce Cracking
- Improve Impact Resistance
- Withstand Load Pressures

Airport Parking Aprons, Runways and High Impact Areas – To:
- Give High Tensile Strength
- Wear and Abrasion Resistance
- Increase the Resistance to Deformation of the Pavements

Benefits
As Bitulastic AC Powder is added to the Asphaltic Concrete AT THE PUG MILL of the Asphalt Producer:

1. Does not have to change binders, such as straight bitumen to a modified binder or from a modified binder to straight bitumen and will not require additional heated storage to store modified binder.
2. Only uses the amount of AC Powder additive required for each project, which keeps the costs to a minimum.
3. May vary percentages of AC Powder additive in the mix to suit individual job requirements, without changing the modified binder, as would occur if the additive were incorporated AC Powder is affected by heat, it is not advisable to store for long periods at high temperatures once the AC Powder has been added to the binder and ready for application.
4. By incorporating AT THE PUG MILL, the heat effect on the polymer is kept to a minimum.

5. **AC Powder** can be stored in packaged form for indefinite periods which enables application at anytime as required.

**Characteristics**

- Excellent compatibility with all bitumen grades
- Excellent compaction at near normal laying temperatures
- Excellent low temperature range
- Excellent impact resistance
- Excellent adhesion
- High skid resistance
- Controls bitumen flow and slump at high pavement temperatures, retains elasticity and flexibility at low temperatures.
- High tensile strength

**Quantities of Bitulastic AC Powder for Various Treatments**

<table>
<thead>
<tr>
<th>Type of Pavement</th>
<th>% of AC Powder in Binder</th>
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<tbody>
<tr>
<td>(A) Medium to Heavy Traffic</td>
<td>15%</td>
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<tr>
<td>Ex: Intersections, Bus Stop</td>
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<tr>
<td>(B) Heavy Traffic Areas</td>
<td>18%</td>
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<tr>
<td>Ex: Main Roads</td>
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<tr>
<td>(C) Very Heavy Duty Areas</td>
<td>20%</td>
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<tr>
<td>Ex: Airport Runways and Taxiways</td>
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**Mixing Procedures**

Approximate amount of **AC Powder** is based on above % per tonne of bitumen in the final mix.

1. Aggregate and filler weighed into Pug Mill.
2. Dry mix for 10 seconds.
3. Add bitumen.
4. Wet mix for 15 seconds.
5. Add Bitulastic **AC Powder** to Pug Mill (bag and all).
6. Wet mix for 30-40 seconds.
7. Cycle Completed.

Application of blended Asphalt Concrete as per operations procedures.

**Packaging**

**Bitulastic AC Powder** is packaged in 4 kg to 10 kg polyethylene bags which can be added to the pug bag and all. Must be kept dry. Avoid direct sunlight to packaging. Do not store in area in excess of 60°C.