



DESCRIPTION

ColAmin[®] is a 100% active bitumen soluble amine compound liquid.

USES

ColAmin[®] can be used as an additive to improve binder/aggregate adhesion in the production of hotmix asphalt or surface dressings. It is especially effective when adhesion problems are experienced with wet or difficult-to-coat aggregates.

PROPERTIES

When **ColAmin[®]** is added to bitumen, the binder develops strong electrochemical adhesion with aggregates. The molecular structure of the amine compound has two important features, namely a polar end group and a non-polar hydrocarbon chain. The non-polar hydrocarbon chain is similar in properties to bitumen and interacts with the binder to become part of it. The polar end of the chain has a polarity opposite to the aggregate surface and thus forms an electrochemical bond with the aggregate, displacing any water present in the process. This bond cannot be broken by water.

SPECIFICATIONS

ColAmin[®] has the following typical properties:

PROPERTIES	CHARACTERISTIC
Appearance @ 25°C	Golden brown viscous liquid
Specific gravity @ 25°C	0.92
Viscosity @ 50°C, cps	50 - 300
Pour point, °C	15
Flash point, °C	> 100

DIRECTIONS FOR USE

1. During asphalt manufacture **ColAmin[®]** can be added directly to the bitumen storage tank and dissolved by pump circulation or stirring. Due to the liquid nature of this product at room temperature **ColAmin[®]** can also be added to the asphalt supply line through in-line pump dosing.
2. For surface dressing applications, **ColAmin[®]** can be added to the binder distributor through the manhole and dissolved by simple pump circulation.
3. The required dosage is between 0.2-0.5% by mass of binder. It is recommended that the **ColAmin[®]** be evaluated with the "job aggregate" to determine the optimum concentration required in the binder.
4. Once blended with bitumen, **ColAmin[®]** can be stored at normal binder storage temperatures for up to 5 days without loss of properties.

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