

KAVASSU ANTISTRIP

Real
Revolution

INTRODUCTION :

SHALIMAR SEAL & TAR PRODUCTS PVT. LTD. is pioneer in Manufacturing / Marketing well known Shalimar brand high performance construction chemicals and waterproofing products. Various product segments are given below :

- WATER REDUCING ADMIXTURES (PLASTICIZERS & SUPER PLASTICIZERS)
- CURING COMPOUNDS
- INTEGRAL CEMENT WATERPROOFING COMPOUNDS
- JOINT FILLERS / SEALANTS
- FOAMING/ RETARDERS/ ACCELERATING/ AIR ENTRAINING AGENTS/ HYPER PLASTICIZERS
- GROUTS & ANCHORS
- INDUSTRIAL FLOORINGS
- INSULATION PROTECTION

- SILICON SEALANTS
- ADHESIVES / TILE GROUTS
- WATERPROOFING CEMENTITIOUS
- ACRYLIC WATERPROOFING COATINGS
- DAMP PROOFING COARSE / EXTERNAL WALLS SEALANT
- PRIMERS / MISLENEOUS COATINGS
- ROAD EMULSION / FILLERS / GENERAL & INDS. BITUMEN
- APP & SBS MODIFIED MEMBRANES & BITUMEN FELTS
- ANTI CORROSIVE / RUST REMOVER & CONVERTOR COATINGS

All products are manufacturing by India's biggest Plant of its kind. M/s. Shalimar Seal & Tar Products Pvt. Ltd., an ISO 9001 accredited company having a highly equipped in-house Research & Development laboratory with ultra modern facilities for manufacturing a quality product under technical guidance & specifications provided by both Shalimar Seal & Tar Products Pvt. Ltd. & M/s. Kavassu International Pvt. Ltd. Products are backed by world's leading company NILE WATERPROOFING COMPANY Egypt, ISOLTEMA SPA, Italy & CAPITAL UNITED, Canada. All products are timetested with varying climatic conditions through out India and have got very strong history of service and case studies in various application areas viz-a-viz construction of Buildings, Factories, Harbors, Dams, Canals, Bridges Atomic, Thermal, Hydel Power projects, Tunnels, Sub-way Boxes, Tube Railways, Roadways, NHAI etc. Shalimar's have got a wide range of products includes some special products, which are obviously not in our product range because of their end use in specific applications. Details can be provided on request. All products are manufacturing by using indigenous as well as imported raw materials to meet out the international quality standards & design to combat water and dampness in structures. All products are easy to use, environment eco-friendly and provide the user a very cost-effective remedy to sort out the problems, which unless and until considered unsolvable.



AN ADHESION IMPROVING COMPOUND FOR BITUMINOUS CONSTRUCTION

GENERAL

Since a large number of stone aggregates from various quarries in the country have been found to show appreciable stripping of bitumen when tested by static immersion test as per IS: 6241, it is necessary that the aggregate to be used for particular road construction should be tested for the stripping properties. If the aggregate shows to be taken to Improve the bond between binder and stone aggregate, so that the stripping does not take place when the coated stones/ bituminous surface is exposed to water in the form of rain, ground water, mist etc. Most suitable method of improving this is the incorporation of a suitable chemical in the bitumen. A product under the name of **Kavassu Antistrip** has been developed for this very purpose. This is an Anti stripping and adhesion improving compound having a high molecular weight Cationic chemicals as its active constituent when used in small quantities say about **0.4-1.5%** by weight of bitumen binder, it has been found to display water from the stones and coat them uniformly with bituminous mix. By virtue of its surface active properties It is finding an extensive use in the bituminous road construction. Even in places where the problem due to presence of water does not exist, the Incorporation of **Kavassu Antistrip** generally tends to prolong the life of the road by promoting the adhesion between the aggregate and the binder It also produces a compact close textured surface.

ADVANTAGES

1. Lowers the surface tension of binder thus facilitates uniform coating of aggregates.
2. Improves the workability and penetrating power of bitumen.
3. Prevents stripping of binder from aggregates and formation of pot holes.
4. Improves the wet strength of bituminous mix.
5. Helps in the surface dressing of roads even in wet weather.
6. Allows the use of larger range of aggregates,
7. Improves distribution and suspension of the filler,
8. Displaces water from the aggregates and helps bitumen to stick to the surface.

DOSAGE

In general 0.6% of **Kavassu Antistrip** (by wt of bitumen) is sufficient to give excellent results but since nature of a aggregate differs from place to place, therefore quantity of **Kavassu Antistrip** should be evaluated in the lab. before its use in the field. It may vary from 0.4-1.5%

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ADVANTAGES

The requisite quantity of **Kavassu Antistrip** should be added to hot bitumen at about 130-140 C. **Kavassu Antistrip** should be added in small quantities & bitumen stirred continuously to obtain a homogenous mix. Then bitumen should be used as usual. **Kavassu Antistrip** is available in liquid as well as Powder form.

The bonding between asphalt and aggregate is of special importance because it is the primary characteristic that influences the integrity of pavement, This bonding must be established at the initial stage of contact between the asphalt and the initial stage of contact between the asphalt and the aggregate and must endure during the life time of the pavement. Loss of bonding results in lowered performance. The pavement strength is attributed to (1) cohesive resistance of the binder (2) the adhesive bond between the binder and the aggregate, (3) the aggregate Inter lock and the frictional resistance between aggregate particles. A number of different methods have been used to strengthen the adhesion of asphalt to aggregate and to lower the pavements propensity to strip, deformation and aging from the intrusion of moisture.

FIRE & SAFETY

Kavassu Antistrip solutions are flammable. Do not expose to naked flames or other sources of ignition. Containers should be tightly sealed when not in use. In the event of fire, extinguish with Co₂ or foam.

PACKING

220 liter drums.

ENVIRONMENTAL HAZARD

None.

QUALITY ASSURANCE

As per ISO 9001.

When incorporated into the binder, **Kavassu Antistrip** promotes chemical adhesion between the binder and the aggregate and promotes adhesion of the binder to the road surface be it wet or dry. When **Kavassu Antistrip** is dissolved in the binder, it arranges itself so that it is attached to the stone on the one hand and the binder on the other, thus ensuring complete contact with the binder, it is important that the viscosity of the binder is sufficiently low as to enable the **Kavassu Antistrip** to move to the stone surface and this is always achieved at normal spraying or coating temperatures. It can be seen therefore, that coating chips with a solution of adhesion agent is not the most effective and economical way of applying adhesion agents. The treated binder method ensures that the **Kavassu Antistrip** can orientate itself at the two interfaces, i.e, aggregate/ binder and binder/road surface, thus ensuring maximum chemical adhesion at both. An obsolete method of applying adhesion agents to surface dressing was to sprinkle a solution of the agent on the binder before application of the aggregate. This method, apart from being inaccurate and laborious, suffered from the disadvantage of not providing adhesion at the road/binder interface. If **Kavassu Antistrip** is to function efficiently as a binder additive, the binder must not be too viscous or the movement of the **Kavassu Antistrip** molecules will be impeded. Correct spraying and mixing temperatures will ensure that viscosity promotes maximum efficiency.

HEALTH & SAFETY

Kavassu Antistrip Solution may cause sensitization by inhalation and skin contact. Wear suitable protective clothing, gloves & eye/face protection. Barrier creams provide additional skin protection. Should accidental skin contact occur, remove skin contact occur, remove immediately with soap & water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advise.

CONFIRMS TO IS CODES

IS: 14987- 2004.



Manufactured By:

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IMPORTANT NOTE :

Products are available at all leading cement, hardware, Tile & Paint stores through our wide network of distributors across the country. The product information & application details given by the company & agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure the suitability of products meeting their requirement prior to full-scale usage of our products. Since the correct identification of the problems, quality of other materials used & on-site workmanship are factors beyond our control there are no expressed or implied guarantee/warranty to the results obtained. The company does not assume any liability or any consequential damage for less than satisfactory results, arising from the use of our products. The leaflet supersedes the previous one and a new issue may take place without notice to supersede this edition as and when it becomes necessary.

SHALIMAR

(STRENGTH OF CONSTRUCTION)