

## KAVASSU STRUC - 486 (MG)

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.



## PCE MODIFIED MID RANGE HYPER PLASTICIZER

### GENERAL

**Kavassu Struc 486-MG** is a **PCE modified 3rd generation** mid range water reducing hyper plasticizer ideal for using in Self compacting concrete with an effective value of getting higher workability with low dosage, & to achieve mid early strength so as to satisfy the water reducing properties. It helps the concrete to be compacted automatically after the placing of the mix. Kavassu Struc - 486 MG is used for High Quality ready-mix concrete using Total Performance Control, especially in case of mid slump required concrete as well as self compacting concrete. Kavassu Struc- 486 MG is hyper plasticizer based on modified poly carboxylic ether to reduce more than 40% water from the control mix at its saturated point.

### USES

Kavassu Struc- 486 MG is used in case of ready mix mid grade concrete where high slump flowable concrete is required. In case of difficulty application areas, i.e. Pre Stress Girders where manually pouring of concrete is difficult for job working, there it is more suitable than other admixture families, which enable the concrete to be self compacted.

### ADVANTAGES

Kavassu Struc - 486 MG is based on Total Performance Control concept which ensures that ready-mix producers, and engineers to get a concrete that is of the same high quality as originally specified. Utilising Rheodynamic Concrete technology, it provides a concrete mix with exceptional placing characteristics and accelerated cement hydration for early strength development AND high quality concrete without the usage of any external man power for placing as it is having the self compaction property.

What differentiates Kavassu Struc - 486 MG from the traditional super plasticiser is a new, unique mechanism of action that greatly improves the effectiveness of cement dispersion. The all new generatic hyper plasticizer based on polycarboxylic ether, helps the concrete to be more workable by creating bubble active rings out side the cement and aggregates up to the desired time of carrying the concrete depending upon the dosage.

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The sulphonic groups of the polymer chains increase the negative charge of the cement particle surface and disperse these particles by electrical repulsion. This electrostatic mechanism causes the cement paste to disperse and has the positive consequence of requiring less mixing water to obtain a given concrete workability. Kavassu Struc - 486 has a different chemical structure from the traditional super plasticiser based on PCE polymers. Kavassu Struc - 486 is derived directly from the Total Performance Control Concept & is specially engineered for ready-mix self compacting concrete. The particular configuration of PCE polymer, allow its delayed absorption on to the cement particles and disperse them efficiently. As compared with other first generational PCE super plasticisers, it is possible to obtain a high quality concrete mix with accelerated strength development and extended workability without delayed setting characteristics.

### ADVANTAGES

- Excellent Workability with retention with low dosage for economy.
- Increases the workability factor as desired without addition of extra water.
- Increase the cohesiveness of the concrete so as to avoid bleeding and segregation factors.
- Due to typical accelerating properties, helps the concrete to achieve high early strength.
- Maintain the cohesive flow property in case of Self compacting Concrete, without any bleeding and segregation effect
- Helps the concrete to be smoother for pumpable operation as the cohesive ness is maintained up to the desired time.
- Make the concrete more effective by reducing the water up to 40%.
- Make the concrete to achieve more than 80 % of the target strength @ just 7 days.

### PACKING

50 & 250 kg.

### DESCRIPTION

**Kavassu Struc 486-MG** is a Poly carboxylic modified dispersed with some highly effective viscosity modifying agents, based admixture confirms to IS 9103/1999-2003. It is a high performance cohesion agent specially design to ensure a good consistency and stability in high grade self compacting concreting. Due to typical dispersive properties, it helps the concrete to be self compacted without the help of any vibration. Due to its accelerative property just after the desired workability hours, it helps the concrete to achieve an early strength of at least 80% of the target strength in 7 days. Due to its elasticity property, it helps the concrete to be free from any type of shrinkage or cracks.

### DOSAGE / LIMITATION

**Kavassu Struc 486-MG** can be used @ **0.4 - 1.6%** of the total cement content depending upon the desired time of workability. It should be charged in to the concrete mix strictly avoiding the mixing of any other admixtures, if any found with contact, then it should be cleaned thoroughly. Due to chloride and alkali free by property, it does not allow any adverse impact to be affected to concrete. In case of higher dosage, please feel free to contact our **technical support team** regarding the dosage Limitation.

### TECHNICAL DATA

NAME: KAVASSU STRUC - 486-MG  
 APPEARANCE: LIGHT BROWN YELLOWISH LIQUID.  
 SP. GRAVITY@27°C: 1.012+/-0.10  
 DRY MATERIAL %: 17 - 40 %  
 CHLORIDE %: NIL - 0.0005  
 PH: 6 MIN.  
 ALKALIES: NIL  
 ASH CONTENT: 6 - 12%  
 ENVIRONMENTAL HAZARD: NONE  
 QUALITY ASSURANCE: AS PER ISO 9001 : 2008  
 SELF LIFE: 12 MONTHS in SEALED PACK UNDER SHED.

NSIC - CRISIL

SE 1B

Crisil Verified



Manufactured By:

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TAR PRODUCTS PVT. LTD.**

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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)