

SHALIMAR'S KAVASSU CRYSTALLOMIX-PG

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 & IND. 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, 14001 & 45001 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 innovative GTX Technology. 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.

CRYSTALLINE ADMIXTURE FOR CONCRETE DURABILITY

GENERAL

Kavassu Crystallomix-PG is a high grade integral waterproofing admixture used for both water-proofing and concrete corrosion protection incorporating UK-GTX technology to chemically transform the cement properties by reacting with the cement paste to reduce pore & capillary size. The reaction between Kavassu Crystallomix-PG and cement paste produces a non-soluble crystalline structure throughout the pores & capillaries permanently sealing the concrete. Kavassu Crystallomix-PG waterproofing admixture is treated silica & various proprietary chemical base that reacts in concrete to form insoluble crystalline hydration products in the capillary pores/ capillary tracts of the concrete. These crystalline hydration products are deposited and fill the pores and hairline cracks up to 0.5mm, effectively reduce the permeability of concrete, its capillary absorption and penetration of water and other liquids into the concrete.

USES

Kavassu Crystallomix-PG is used in all types of waterproofing and concrete corrosion protection, water storage tanks, roofs, building structures, pile concrete, super structures, pavement quality concrete, shotcreting, reservoirs, dams, marine structures, swimming pools, tunnels, etc.

ADVANTAGES

- Protection against concrete corrosion.
- Enhances hydration process.
- Economical surface preparation.
- Fast tracks construction.
- Improved Durability of concrete.
- Protection against chloride and sulphate ingress.
- Concrete waterproofed throughout.
- Added to concrete not constrained by weather conditions.
- Withstands hydrostatic pressure either positive or negative surface of concrete.
- Heals micro and hairline cracks can seal hairline cracks up to 0.5mm in 56 days and would keep on sealing cracks as on when cracks appear on concrete surface or internal shrinkage cracks with due course of time and this healing process continues with time.
- Reduces opportunity for freeze thaw damage.
- Improved Durability of concrete.
- Improves chemical and carbonation resistance properties.
- Non toxic so could be used in portable water tanks.
- Excellent Bonding.
- No installation costs seams or joints
- Does not rely on bond to work
- Permanent waterproofing of concrete.
- Improves workability and strength of concrete.
- May reduce existing admixture dosage
- Enhances hydration process

INSTRUCTION FOR USE

DOSES

KAVASSU CRYSTALLOMIX-PG should be dosed at 0.8 - 1.5 Kg per 100 Kg of total cementitious material. As a further instruction the following should be followed by automatic dispenser .



CENTRAL MIXING:

KAVASSU CRYSTALLOMIX-PG is required to be mixed with water to form a flowing slurry 25Kg of Powder to 6.5 - 7 Kg of water. Pour the mixture into the ready mix truck/ batching plant and mix for at least five minutes to ensure good distribution of KAVASSU CRYSTALLOMIX-PG .

DRY BATCH READY MIX CONCRETE:

Pour the required quantity of KAVASSU CRYSTALLOMIX-PG to the ready mix truck/batching plant In the ready mix truck, under the batch plants & add 60% of the water with 150 - 250 Kg of aggregate mix for 2 - 3 minutes to ensure the good distribution of KAVASSU CRYSTALLOMIX-PG . Add the remaining ingredients to the batching plant/ transit mixture as normal practice.

PRECAST CONCRETE PLANTS

Add the KAVASSU CRYSTALLOMIX-PG to the aggregate and sand mix for three min. before adding cement and waterproofing. Note:-Under certain conditions the dosage used may be 2 - 3% by weight of total cementitious material to meet the specific requirements of a critical project. For the optimum dosage consult Shalimar-Kavassu R&D team.

OVERDOSING

Overdosing of KAVASSU CRYSTALLOMIX-PG will result in increased workability and possibly more rapid set. In the case of accidental overdosing check strengths and setting times before stripping forms. Overdosing normally will have no detrimental long term side effects as long as cured correctly with water before stripping forms. In general 28 day strengths would be improved. If any doubt contact Shalimar-Kavassu Technical Department.

TECHNICAL DATA

Type of Admixture	- Free flow Powder type crystallized admixture.
Aspect	- Light grey, Light Yellow, Brick Red
Dosage	- 0.8 - 1.5 % of cementitious Material & up to 3% subject to special requirement of concrete.
Storage	- To be stored in original bag. Protected from sunlight.
Shelf Life	- For best result use within 12 Months
Sp. Gravity	- 2.47 - 2.55
Chloride %	- NIL to EN 934
Bulk Density	- 1.33 - 1.37
pH	- 13 - 14
Drying & shrinkage Reduction	- 20%>
Sulphate Resistance changes	- No internal expansion (ASTM C1012-12)
Chloride diffusion coefficient(m ² /S)	- Min. 45% (ASTM C1556-04)
Freeze-Thaw cycle length changes(%)	- < 10.53% (NCh 2185 of 92)
Reduction in permeability (Coefficient -5X10-13 m/s)	- 90%> (DIN 1048 Part 5)
Water penetration depth	- Below 15mm i.e <15mm (DIN1048 Part 5)
Self healing capacity	- 0.5mm (cracks)
Increase in compressive strength (MPa)	- 12% - 20%
Abrasion	- Passes
Non Toxic	- Passes IS : 158

HEALTH AND SAFETY

KAVASSU CRYSTALLOMIX-PG is highly alkaline. Protect hands with rubber gloves and wear safety goggles during mixing & application. Avoid contact with skin or eyes. Should contact occur, flush copiously with water. If irritation persists, contact a physician.

Accredited by EIL

Approved by IRC



QUALITY ASSURANCE

As per

ISO - 9001:2015

ISO - 14001:2015

ISO - 45001:2018

Packaging 3 & 27 KG.

ENVIRONMENTAL HAZARD

None.

HSN CODE

38244090



ISO 14001:2015



ISO 9001:2015



ISO 45001:2018



Manufactured By: **SHALIMAR SEAL & TAR PRODUCTS PVT. LTD.**

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MANUFACTURING PLANT LOCATION
JAIPUR

CUSTOMER CARE :

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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.

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