



SOLIDMIX PLUS

INTEGRAL WATERPROOFING ADDITIVE FOR CONCRETE AND PLASTER



CONCRETE
ADMIXTURES



BENEFITS

- > Ensures perfect watertight structure.
- > Disrupts the capillaries that cause leakage in the structure.
- > Reduces mortar dropping when used in plaster.
- > Very low cost.
- > Less dosage per bag proves it highly efficient.
- > Chloride free and free from corrosion.
- > Fair concrete surface. Ensures good finish to concrete.
- > Apart from waterproofing, it increases strength of concrete and plaster.
- > Increase plasticity of concrete thus it flows easily without increase in water and better compaction is achieved. Reduced water cement ratio increases compressive strength and durability of concrete.
- > Does not affect the setting time of the concrete and mortar.
- > Liquid nature ensures homogeneous mixing.

DESCRIPTION

SOLIDMIX PLUS in concrete reacts with the cement during the hydration process to form a hydrophobic feature on the voids in concrete which reduces the capillary suction and minimizes water percolation. **SOLIDMIX PLUS** also avoids segregation and bleeding of fresh concrete. Considerable reduction in capillary pores within concrete, reduces permeability and improves concrete durability. Increased durability and water tightness of concrete protects it against the ingress of dampness, chloride and other aggressive chemical attacks.

USES

SOLIDMIX PLUS is used to minimise permeability and porosity of concrete and cement sand mortar. Useful product for water retaining structures like terrace, water tanks, parapets, bathroom, toilets and industrial structures like reservoirs, cooling tower etc.

PRODUCT

SOLIDMIX PLUS is an intergral, high performance waterproofing additive is based on high performance polymers, which reduces the permeability throughout the depth of the concrete. It confirms to **SIRIM Standards**.

TYPICAL PROPERTIES

<i>Color</i>	: Dark brown.
<i>pH</i>	: 7.5 +1
<i>Compatibility</i>	: Can be used with all types of portland cement.
<i>Permeability to Water</i>	: Less than 10% as compared to 50% max allowable under (please review SIRIM certification).
<i>Setting Time</i>	: No significant effect on setting time of concrete or mortar.

TYPICAL TEST RESULT

- > Grade of concrete - Grade 20.
- > Brand and grade of cement - LAFARAE.
- > Sand zone - II
- > Cement content - 290kg/m .

TYPICAL STRENGTH DEVELOPMENTS

	Dosage	W/C Ratio	Slump (mm)	Compressive strength (N/mm ²)			
				1day	3days	7days	28days
Control Concrete	NIL	0.55	50	9	12	15	22
SOLIDMIX PLUS	150	0.50	115	10	13	17	23

APPLICATION

Plaster : SOLIDMIX PLUS is ideal for use with all sand and cement mortars where it required to reduce permeability to a minimum.

Concrete : SOLIDMIX PLUS is recommended for all general concrete work where the risk of porosity and permeability must be minimised. E.g. basements, retaining walls, tanks, balcony, floor and roof slabs.

SOLIDMIX PLUS



The required quantity of **SOLIDMIX PLUS** is measured and poured with the regular pouring of water in case of conventional concreting. Separate dispensing system is required for RMC plant.

SOLIDMIX PLUS water mixture shall be added to the concrete or mortar and mixed thoroughly. Mixing shall be continued and further water shall be added until the required workability is obtained. The total amount water added per mix in initial batches shall be maintained for the remaining batches.

NOTE : Mixes of **SOLIDMIX PLUS** will require much less water than normal mixes for the same workability. Water reduction may be as much as 15% or more. If the moisture content of the sand or aggregate changes i.e., it become wet or dry, then the amount of water used must be reduced or increased to give the original workability.

PACKING & DOSAGE

SOLIDMIX PLUS can be added in 150-200ml per bag of cement. Optimum dosage is 150ml / 50kg cement. **SOLIDMIX PLUS** is supplied in 150ml, 1, 20, 200liter carboys.

SHELF LIFE & STORAGE

SOLIDMIX PLUS will have a shelf life of 12 months in unopened container when kept in dry conditions at a temperature between 5°C to 45°C. Storage at higher temperature or high humidity may reduce shelf life.

HEALTH & SAFETY

SOLIDMIX PLUS is non-toxic and mild alkaline. If splashes on skin should washed with water. If contact with eye occurs wash with plenty of water and seek medical help.

SPECIFICATION

SOLIDMIX PLUS is an integral waterproofing additive for concrete and mortar used at the rate of 150-200 ml per bag of cement and strictly in accordance with the instruction of SOLID.

QUALITY ASSURANCE

SOLID manufactures the entire range of construction chemical under compliance of SIRIM and other international standards (ASTM, BS, GBI, LEED).

TECHNICAL SERVICES

Mix design : Solid has a dedicated advisory service in mix concrete design and can be contacted if assistant required. While new advance and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our technical personnel and experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

Disclaimer: The information provided in the data sheets is based on both current development of work and years of field experience. Efforts are made to ensure that the information is reliable, however, we cannot accept the responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc. In view of continuing research and development (R&D) undertaken in our laboratories, we advise customers to ensure that the data sheets provided are not superseded by an updated publication. All products are sold are subject to our standard condition of sale, which is available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact our local SOLID representative.

solidgreentech @solidgreentech

@solidgreentech solidgreentech



SOLID GREEN TECH SOLUTIONS SDN. BHD.
(Co.No.1018765-P)

FACTORY OFFICE

Lot 772 (10-14), Jalan Subang 4,
Kaw. Perindustrian Penaga,
46720 Subang Jaya, Selangor, Malaysia.

+603-8081 4777 / +603-8081 4776

+603-8081 4771

info@solidsolutions.com.my

www.solidsolutions.com.my



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