

SCOTTPROOF 200

SCOTTPROOF 200 is a totally dependable, most efficient and very economical cement waterproofing compound. SCOTTPROOF 200, which is a highly-plasticising and waterproofing compound, dramatically transforms ordinary cement, sand and mortar/concrete mixes into a highly cohesive mix, with improved flow & workability, which helps in easier & faster placing.

SCOTTPROOF 200, bearing the ISI mark certification, assures you of a high quality product manufactured under strict quality control & as per the testing procedure laid down by the Bureau of Indian Standards.

SCOTTPROOF 200 can be used with any type of O.P.C., P.P.C., super sulphate and slag cement.

TYPICAL PROPERTIES

- Appearance : Liquid
- Colour : Brown colour

ADVANTAGES



Improved Workability: Remarkable improvement in the flow and workability of concrete for easier and fast placing without any loss of strength.



Lower W/C Ratio: Reduction of upto 10% in water content without loss of workability.



Improved Quality: More dense, cohesive concrete with reduced permeability and improved surface finish.



Better Bond Strength: Much better adhesion between steel and concrete. The steel-concrete bond strength at 7 days is increased from 1.2 to 3.5 MPa for smooth bars and from 15.0 to 27.0 MPa for twisted bars.



Reduced Bleeding & Segregation: Bleeding and segregation reduced to almost nil and the problem of honey-combing, rock pockets and weak patches totally eliminated.



Reduced Drying Shrinkage: Much less drying shrinkage because of lower heat of hydration.



Corrosion Resistance: Much greater protection of steel reinforcements from rust and corrosion.



Improved Durability: Significant increase in the life and durability of cement-concrete structures.

THE NEED FOR WATERPROOFING MATERIALS

- Water penetrates cement & sand mix/concrete under the condition of hydrostatic pressure or by absorption.
- Water under pressure, coming in contact with one surface of cement mortar/concrete, migrates/travels through interconnected channels to the other surface of mortar/concrete.
- Inter-connected capillary channels in cement mortar/concrete allows water to be absorbed by the capillary action. One surface in contact with water would allow water/moisture to flow through cement mortar/concrete and evaporate from the other face exposed to air.
- The inter-connected voids /pores and water channels are the main factor in the cement-concrete to allow the passage of water. Absence of such channels/voids and the inter-connection would ensure that no water/moisture movement occurs.

MULTI-ACTION MECHANISM

- The concentrated and powerful SCOTTPROOF 200 is a special blend of a super plasticiser (ligno sulphonates) and a highly effective water repellent/hydrophobic material.
- When Portland cement and water are the cement, cement particles tend to stick to each other in clusters/agglomerates, trapping water in the clusters. In presence of SCOTTPROOF 200, such clusters/agglomerates break-up as individual particles and the trapped water is now free to contribute fluidity to the fresh cement mortar/concrete.
- When using SCOTTPROOF 200, less mixing water is required in the cement-concrete mix, yet producing a uniform mix with a high workability and cohesiveness with low porosity and preventing formation of voids/pores/water channels and therefore a reduction in permeability of cured cement concrete.
- SCOTTPROOF 200 would change the cellular structure of the cement-concrete with reduced pores / voids / channels because of greater uniformity, workability and a more homogeneous mix is produced resulting in greater water tightness.
- SCOTTPROOF 200, in contact with wet cement-concrete, would interact chemically to produce water-insoluble particles, which provides a water-repelling coating to the capillary channels and also block pores/voids thus preventing water movement.

Thus, SCOTTPROOF 200 increases the resistance to water-penetration due to its high plasticising with reduced W/C ratio and the formation of insoluble particles which coat the pores and capillaries as well as block them.

IMPORTANT PRECAUTIONS

The following precautions are necessary at the construction stage for avoiding frequent costly repairs and recurring problems afterwards:

- Just enough water for making workable cement-concrete mix should be used. Use of excess water results in bleeding, segregation and formation of water channels.
- As far as possible, aggregates should be well-graded and the sand should have an adequate quantity of fine particles.
- Proper curing for the first seven days is very important because major improvements occur during this period. By constant curing during the hydration, a cement gel is formed which reduces voids, pores and capillaries. It provides a water-repelling coating to the capillary channels and also blocks pores/voids, thus preventing water movement in the cement-concrete.

Thus, SCOTTPROOF 200 increases resistance to water-penetration due to its high plasticising with reduced W/C ratio and formation of insoluble particles, which coat the pores and capillaries, as well as block them.

MIX PROPORTION

The recommended dosage of concentrated SCOTTPROOF 200 is 200 ml per bag of 50 kg cement.

HOW TO USE

Mix 200 ml of SCOTTPROOF 200 liquid in 3 to 5 liters of water and add the same to a cement/concrete mix and pour additional water required for one bag of cement while mixing as usual.

SHELF LIFE

At least 12 months from the date of manufacture in the original sealed condition.

STORAGE

Low or high temperature storage should be avoided and the adhesives should preferably be stored within the temperature range of +5°C to +35°C.

SERVICES

For further information on this product and its application, please contact the Technical Services Department of Nerofix Pvt. Ltd.

IMPORTANT NOTICE

Whilst all reasonable care is taken in the compilation of this data sheet, it is the customer's responsibility to determine the suitability of the product for the desired application.

DISCLAIMER

KANSAI NEROLAC PAINTS LTD. (KNPL) warrants that all products are free from any defects of manufacturing and comply with the specifications given in their respective technical data sheet. No warranty can be given as to the results of use because conditions of use, such as site conditions, surface preparations, workmanship, weather, structural issues and other factors are beyond the control of NEROLAC. Purchaser agrees to seek the advice of qualified professionals to carry-out tests and take trials to determine the suitability of products for their intended purpose, prior to full-scale usage of KNPL products and assumes all risks.

The company does not assume any liability for unsatisfactory results, arising from the use of our products. Purchaser's sole liability is limited to the replacement of the product or refund of the purchase price paid, if any product is proven defective. No other warranties expressed or implied, shall apply including any warranty of merchantability or fitness for any particular purpose.

KNPL shall not be liable for any consequential damages arising from the use of our products for unsatisfactory results.

The information supplied in this data sheet is based on our experience through extensive research and is given in good faith in order to help prospective users. We reserve the right to update the information provided in our technical data sheet at any time without prior notice within the scope of technical progress or new developments.

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