

**SCHEME OF TESTING AND INSPECTION
FOR CERTIFICATION OF
INTEGRAL WATER PROOFING COMPOUNDS
FOR CEMENT MORTAR AND COCRETE
ACCORDING TO IS 2546:2003**

1. **LABORATORY** – A laboratory shall be maintained which shall be suitably equipped and staffed where different tests given in the specification shall be carried out in accordance with the methods given in the specification.
2. **TEST RECORDS** - All records of tests, inspection and calibration shall be kept in suitable forms approved by the Bureau.
 - 2.1 All testing apparatus/measuring instruments shall be periodically checked and calibrated and records of such checks/calibration shall be maintained.
 - 2.2 Copies of any records and other connected papers that may be required by the Bureau shall be made available at any time on request.
3. **QUALITY CONTROL** – It is recommended that, as far as possible, Statistical Quality Control (SQC) methods may be used for controlling the quality of the product during production as envisaged in this Scheme [See IS 397(Part I):1972, IS 397(Part 2):1985 and IS 397(Part 3):1980].
 - 3.1 In addition, effort should be made to gradually introduce a Quality Management System in accordance with IS/ISO 9000 series as appropriate to the activities of the organization.
- 4.0 **STANDARD MARK** – The Standard Mark, as given in Column (1) of the First Schedule of the licence, shall be stenciled/printed label applied on each container of integral cement water proofing compound, provided always that the material in each container to which this mark is thus applied conforms to all the requirements of the specification.
- 5.0 **MARKING** - In addition the following information shall be given on each container on the label applied to it :
 - a) Name of the material
 - b) Name and address of the manufacturer and/or his trade mark if any.
 - c) Net mass.
 - d) Brand name (s), if any.

- e) Date, month and year of manufacture and Batch Number/control unit number.
- f) Maximum chloride content
- g) Manufacturers recommended dosage
- h) Instructions for use and safety precautions
- i) Recommended storage conditions
- j) Date of expiry
- k) Licence Number (CM/L.....)

6.0 **PACKING** - The material shall be packed as per Cl.5 of Is 2645:2003.

7.0 **CONTROL UNIT** - For the purpose of this scheme, the total quantity of the finished materials of the same type produced at a time not exceeding five tones shall be considered as one control unit. In case of production of more than five tones, every five tones, in excess or part thereof, will be treated as a separate unit.

7.1 A sample shall be drawn from every 10th control unit and tested for permeability to water. If the sample fails in any of these requirements, the entire material in the control unit shall be considered as unfit for the purpose of marking.

7.2 A representative sample representing production of three months shall be made and when tested for compressive strength test, shall conform to the requirements prescribed in the specification. In case sample does not conform to the requirements of the specification, the entire quantity of the material produced, representing the sample, shall be considered unfit for marking.

Note : If no testing facility is available with the licensee, they are permitted to get the compressive strength test done at some independent laboratory. The test certificates shall be kept in records and shown to BIS Inspecting Officers. In respect of all other clauses of the specification, the factory shall maintain appropriate controls & checks to ensure that their product conforms to the various requirements of the specification.

8. **LEVELS OF CONTROL** - The tests, as indicated in Table 1 attached and at the levels of control specified therein, shall be carried out on the whole production of the factory which is covered by this scheme and appropriate records and charts maintained in accordance with paragraph 2.0 above. All the production which conforms to the Indian Standards and covered by the licence shall be marked with certification mark of the Bureau.

9.0 **REJECTIONS** - A separate record shall be maintained giving information relating to the rejection of the production not conforming to the requirements of the specification and the method of its disposal. Such material shall in no circumstances be stored together with that conforming to the specification.

10.0 **SAMPLES** – The licensee shall supply, free of charge, the samples required in accordance with the Bureau of Indian Standards (Certification) Regulations, 1988, as subsequently amended, from the factory or godowns. The Bureau shall pay for the samples taken by it from the open market.

11.0 **REPLACEMENT** – Whenever a complaint is received soon after the goods with Standard Marks have been purchased and used, and if there is adequate evidence that the goods have not been misused, defective goods or their components are replaced or repaired free of cost by the licensee in case the complaint is proved to be genuine and the warranty period (where applicable) has not expired. The final authority to judge the conformity of the product to the Indian Standard shall be with the Bureau.

12.0 In the event of any damages caused by the goods bearing the Standard Mark, or claim being filed by the consumers against BIS Standard Mark and not “conforming to” the relevant Indian Standard, entire liability arising out of such non conforming product shall be of licensee and BIS shall not in any way be responsible in such cases.

13.0 **STOP MARKING** – The marking of the product shall be stopped under intimation to the Bureau if, at any time, there is some difficulty in maintaining the conformity of their product to the specification, or the testing equipment goes out of order. The marking may be resumed as soon as the defects are removed under intimation to Bureau.

13.1 The marking of the product shall be stopped immediately if directed to do so by Bureau for any reason. The marking may then be resumed only after permission by the Bureau. The information regarding resumption of markings shall also be sent to the Bureau.

14.0 **PRODUCTION DATA** – The licensee shall send to BIS as per the enclosed proforma-1 to be authenticated by a Chartered Accountant or by the manufacturer by giving an affidavit/undertaking, a statement of quantity produced, marked and exported by him and the trade value thereof at the end of each operative year of the licence.

Table 1.....

IS 2645:2003
INTEGRAL WATER PROOFING COMPOUNDS
FOR CEMENT MORTAR AND COCRETE
TABLE 1 LEVELS OF CONTROL
(Para 8 of the Scheme of Testing and Inspection)

TEST DETAILS			LEVELS OF CONTROL		Remarks
Cl.	Requirement	Test Methods Clause Reference	No. of samples	Frequency	
2.1	Permiability to water	2.1 IS 2645:2003	One	Every tenth control unit *	
2.2	Setting Time	- IS 4031(Pt.5):	One	Each control unit	
2.3	Compressive Srength	- -do-	One representative gross sample	Once in three months	
2.4	Chloride content	- IS 6925	One	Each control unit.	

* In case of failure, the next three consecutive control units be tested and the frequency to every tenth Control Unit be resumed only if all the three samples pass.