



उत्पाद मानुयल
तैयार मिश्रित रंग रोगन, ब्रश करने लायक, लकड़ी के लिए प्राइमर
IS 3536 : 2016 के अनुसार

**Product Manual For
Ready Mixed Paint, Brushing, Wood Primer - Specification
According to IS 3536 : 2016**

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम की स्कीम-I के तहत यह उत्पाद मानुयल प्रमाणीकरण के प्रचलन में रीति और पारदर्शिता के सुसंगत सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाइसेन्स धारियों द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस लाइसेन्स/प्रमाण पत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज़ का उपयोग किया जा सकता है।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification licence/certificate.

1.	उत्पाद Product	:	IS 3536 : 2016
	शीर्षक Title	:	तैयार मिश्रित रंग रोगन, ब्रश करने लायक, लकड़ी के लिए प्राइमर - Ready Mixed Paint , Brushing, Wood Primer --- Specification
	संशोधन संख्या No. of Amendments	:	0 Nil
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	No specific requirement

b)	समूहिकरण दिशानिर्देश Grouping guidelines	:	NA
c)	नमूने का परिमाण Sample Size	:	4 X 1 litres.
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	कृपया Annex-A देखें Please refer ANNEX – <u>A</u>
4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	कृपया Annex-B देखें Please refer ANNEX – <u>B</u>
5.	एक दिन में संभावित परीक्षण Possible tests in a day :		
	(i) Drying Time, Surface dry as per Table 1, Sl. No. i (a) (ii) Consistency, as per Table 1, Sl. No. (ii) (iii) Mass as per Table 1 Sl. No. (iii) (iv) Flash Point as per Table 1 Sl. No. (vii)		
6.	लाइसेन्स का कार्यक्षेत्र / Scope of the Licence		
	IS 3536 : 2016 के अनुसार मानक मुहर का उपयोग करने के लिए लाइसेन्स निम्नलिखित कार्यक्षेत्र के लिए प्रदान किया जाता है “Licence is granted to use Standard Mark as per IS 3536 : 2016 with the following scope:		
	Name of the product	Ready Mixed Paint , Brushing, Wood Primer	

ANNEX-A
List of Test Equipments
For Ready Mixed Paint, Brushing, Wood Primer
According to IS 3536 : 2016

Major test equipment required to test as per the Indian Standard

Sl. No.	Tests used in with Clause Reference	Test Equipment
1	Lead restriction, Cl. 4.2	Electrolysis Method – Analytical Balance, Evaporating Dish, Oven, Muffle Furnace, Dessicator, Beakers, Hot plate, Filter paper, Conc. Nitric Acid, Water, Ammonium Nitrate, copper sulphate solution, Platinum Gauze, Arrangement for Electrolysis, Alcohol Molybdate Method – Analytical balance, Beakers, Oven, Conc. Nitric Acid, Conc. Sulphuric Acid, Hot plate, Water, Ethyl Alcohol, Paper pulp, Ammonium Acetate Solution, Glacial Acetic Acid, Ammonium Paramolybdate, Porcelain Filtering Crucible, Muffle Furnace. Sulphide Method - Filter paper, Beakers, Silica crucible, Muffle furnace, Centrifuge Tube, Oven , Water bath, Analytical Balance , Centrifugal Machine, Mechanical shaker, Extraction Mixture, Conical Flask, Hydrochloric Acid, Dilute Nitric Acid, Amonium acetate , Conc. Sulphuric acid, Dil. Sulphuric acid, Amonium acetate solid , Hydrogen sulphide Gas, Hydrogen sulphide water saturated soln
2	Drying Time, Cl.4.3, Table 1, Sl.No. (i)	Silver Sand (150 - 300µ), Camel hair brush, Stop watch, Paint Brush, Test Panels, Conditioning Chamber
3	Consistency, Cl.4.3, Table 1, Sl.No. (ii)	Wood Panels, Palette Knife or Metal rod
4.	Mass (Kg/10Lt), Cl.4.3, Table 1, Sl.No. (iii)	Pycnometer, Distilled Water, Thermometer (LC-0.2° C), Temperature controlled Chamber or Water bath, Analytical Balance
5.	Finish, Cl.4.3, Table 1, Sl.No. (iv)	Panels, Paint Brush

6.	Colour, Cl.4.3, Table 1, Sl.No. (v)	Visual Comparison- Artificial Daylight Illumination by means of Colour Matching Booth or Natural Northern daylight Illumination, Test Panels, Reference Standards, Spectrophotometric Method - Test Panels, Reference Standards, Any suitable Photo electric reflectometer using three filters amber, green and blue, along with ICI illuminant C.
7.	Flexibility & Adhesion, Cl.4.3, Table 1, Sl.No. (vi)	
	Bend Test	Type-1 Bend apparatus Control Temperature Chamber, Test Panel (100x50x0.3 mm)
	Scratch hardness	Mechanize apparatus Or Hand operated apparatus, Needle, Test Panels
8.	Flashpoint, Cl.4.3, Table 1, Sl.No. (vii)	Test Cup, Bath, Thermometers, Support-for holding Test cup
9.	Composition (Volume Solids), Cl.4.3, Table 1, Sl.No. (ix)	Analytical Balance (0.1mg sensitivity), Stainless steel disc (60 mm dia, 0.70 mm thickness with a small hole 2-3 mm from the edge), Weight Box, Beaker (1 Lt), Mass per Ltr. Cup, Hot air Oven
10.	Water content (Dean and Stark apparatus), Cl.4.3, Table 1, Sl.No. (x)	RB Flask, Condenser, Receiver, 100 ml graduated cylinder, Heater, Toluene, Ethyl Acetate, Oven
11.	Resistance to Water, Cl.4.3, Table 1, Sl.No. (xi)	Wooden Panel (200 X 100 X 10), Weighing Balance, Tank (700 mm X 400 mm X 400 mm fitted with a cover, a heater and thermostatic control), System for Aeration of Water, Panels, Blotting paper
12.	Keeping Properties, Cl. 4.4	Spatula , Test Surface, Nylon paint brush

The above list is indicative only and may not be treated as exhaustive.

ANNEX B
SCHEME OF INSPECTION AND TESTING
FOR READY MIXED PAINT, BRUSHING, WOOD PRIMER
ACCORDING TO IS 3536 : 2016

1. LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare a calibration plan for the test equipment's.

2. TEST RECORDS –The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. PACKING AND MARKING – The Standard Mark, as given in the Schedule of the licence, shall be marked on the container of the product, provided always that material to which this mark is thus applied, conform to every requirement of the specification.

3.1 Marking – Each container shall be legibly marked to give the information as per clause 5.2.1 of IS 3536. In addition, the following details shall be marked on each container legibly and indelibly:

- a) BIS Licence No. CM/L..... and
- b) BIS website details i.e. – “For details of BIS certification please visit www.bis.gov.in”.

3.2 Packing – The material shall be packed as per Cl. 5.1 of IS 3536.

4. CONTROL UNIT – For the purpose of this scheme, primer of same colour produced during a shift thoroughly homogenized shall constitute a control unit.

5. LEVELS OF CONTROL - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

5.1 All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.

6. REJECTIONS– Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

TABLE 1 LEVELS OF CONTROL

(Para 5.0 of the scheme of testing and Inspection)

Test details (1)			Test equipment requirement R: required (or) S: Subcontracting permitted (2)	Level of control (3)	
Clause	Requirement	Test method Reference		No.of Samples	Frequency
4.2	Lead restriction	IS 101(Part8/Sec5)	R	One	Each Control Unit
4.3 & Table 1 of IS 3536 : 2016	i) Drying time				
	a) Surface dry	IS 101(Part3/Sec1)	R	One	Each Control Unit
	b) Hard dry	IS 101(Part3/Sec1)		One	Each Control Unit
	ii) Consistency	Annex B of IS 3536 : 2016	R	One	Each Control Unit
	iii) Mass in Kg/10 litres, Min.	IS 101(Part1/Sec7)	R	One	Each Control Unit
	iv) Finish	IS 101(Part3/Sec4)	R	One	Each Control Unit

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	v) Colour	IS 101(Part4/Sec2)	R	One	Each Control Unit
	vi) Flexibility and adhesion a) Bend Test b) Scratch hardness	Cl. 2 of IS 101(Part5/Sec2) Cl. 3 of IS 101(Part5/Sec2)	R	Two	Each Control Unit
	vii) Flash Point	IS 101(Part1/Sec 6)	R	One	Each Control unit
	ix) Composition (a) Volume solids	IS 101(Part 8 /Sec 6)	R	One	Each Control Unit
	x) Water content percent by mass	IS 101(Part2/Sec 1)	R	One	Each Control Unit
	xi) Resistance to water	Annex C of IS 3536 : 2016	R	One	Each Control Unit
	xii) keeping Properties	IS 101(Part6/Sec 2)	R	One	Each 10 th Control Unit

Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.