

केन्द्रीय मुहर विभाग-2

हमारा संदर्भ : के.मु.वि.-2/16: 13213

12 09 2018

**विषय: संशोधित IS 13213 : 2018 'Polyurethane Full Gloss Enamel (Two-Pack)' (First Revision) व इसके संशोधन संख्या 1 के अनुसार Scheme of Inspection and Testing (SIT)**

1. संशोधित IS 13213 : 2018 'Polyurethane Full Gloss Enamel (Two-Pack)' (First Revision) व इसके संशोधन संख्या 1 के अनुसार Scheme of Inspection and Testing (SIT) अवलोकन हेतु संलग्न है।

(आदित्य दास)  
वैज्ञानिक सी (सी एम डी-2)

प्रमुख (के.मु.वि.-2)

सभी क्षेत्रीय/शाखा कार्यालयों/सी एच डी/एलपिपिडी को इंटरनेट के माध्यम से परिचालित

**प्रतिलिपि:**

आई टी एस विभाग - बीआईएस इंटरनेट पर अपलोड करने के लिए

**CENTRAL MARKS DEPARTMENT-2**

Our Ref: CMD-2/16: 13213

12 09 2018

**Subject: Scheme of Inspection and Testing (SIT) for Revised IS 13213 : 2018 with amendment no. 1 'Polyurethane Full Gloss Enamel (Two-Pack)' (First Revision)**

1. Please find enclosed Scheme of Inspection and Testing (SIT) for Revised IS 13213 : 2018 with amendment no. 1 'Polyurethane Full Gloss Enamel (Two-Pack)'.

(Aditya Das)  
Sc. 'C' (CMD-2)

Head (CMD-2)

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**SCHEME OF INSPECTION AND TESTING  
FOR CERTIFICATION OF  
POLYURETHANE FULL GLOSS ENAMEL (TWO-PACK)  
ACCORDING TO IS 13213:2018**

- 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 equipments.
  
- 2. TEST RECORDS** - The manufacturer shall maintain test records for the tests carried out to establish conformity.
  
- 3. LABELLING AND MARKING** -The Standard Mark as given in Schedule of the license and Licence Number (i.e. CM/L.....), labeling/ marking and packing shall be done as per the provision of the Indian Standard, provided always the product thus marked conforms to all the requirement of the specification. In addition, details of BIS website shall be marked as follows: “For details of BIS certification please visit [www.bis.gov.in](http://www.bis.gov.in)”
  
- 4. CONTROL UNIT** – For the purpose of this scheme, the polyurethane full gloss enamel produced in a batch mixer (after completion of all other operations) at a time shall constitute a control unit.
  
- 5. LEVELS OF CONTROL** - The tests, as indicated in 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. REJECTION** - 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. A separate record providing the detailed information regarding the rejected control units and mode of their disposal shall be maintained. Such material shall in no case be stored together with that conforming to the specification. The Standard Mark (if already applied) on rejected material should be defaced.

**IS 13213: 2018**  
**POLYURETHANE FULL GLOSS ENAMEL (TWO-PACK)**

**TABLE 1: LEVEL OF CONTROL**  
**(Para 5 of the Scheme of Inspection and Testing)**

(1)				(2)	(3)		
Test Details				Test equipment requirement R:required (or) S: Sub-contracting permitted	Levels of Control		
Clause	Requirements	Test Method			No. of Samples	Frequency	Remarks
		Clause	Reference				
4.1	Composition	4.1	IS 13213 : 2018	R	One	Each Control Unit	
4.2	Lead restriction	-	IS 101 (Part 8/Sec 5)	R	One	-do-	
4.4 & Table 1	i) Consistency	Annex C	IS 13213 : 2018,	R	One	-do-	
	ii) Drying Time a) Surface Dry b) Hard Dry c) Hard Dry, 70 <sup>0</sup> C	-	IS 101( Part3/Sec 1)	R	One	-do-	
	iii) Finish	-	IS 101( Part3/Sec 4)	R	One	-do-	
	iv) Gloss 60 <sup>0</sup>		IS 101( Part4/Sec 4)	R	One	-do-	
	v) Colour	-	IS 101( Part4/Sec2)	R	One	-do-	
	vi) Dry film thickness	6.2.1	IS 101( Part3/Sec 2)	R	One	-do-	
	vii) Volume solids	-	IS 101( Part8/Sec 6)	R	One	-do-	
	viii) Flexibility and adhesion a) Bend test b) Scratch hardness	2 3	IS 101( Part5/Sec2) IS 101( Part5/Sec2)	R R	One One	-do- -do-	
	ix)Flash point		IS 101( Part1/Sec6)	R	One	-do-	
	x) Fineness of grind		IS 101(Part3/Sec5)	R	One	Each Control	

						Unit	
	xi)Pot life	Annex D	IS 13213 : 2018	R	One	- do-	
	xii) Mass Kg/ 10 Lt.		IS 101(Part1/Sec7)	R	One	- do-	
	xiv)Accelerated Test a) Resistance to acid b) Resistance to alkali c) Resistance to oil d) Resistance to solvents	Annex E	IS 13213 : 2018	R	One	Once in a Month	
4.3 &4.4 & Table 1	xv) Durability test a) Out-door Exposure b) Accelerated Weathering Test c) Colour change d) Gloss retention e) Corrosion	Annex F -do- -do- -do- C-3.4	IS 13213 : 2018 -do- -do- -do- IS 8662	S	One -do- -do- -do- -do-	Once in Three months Once in a year Once in three months -do- -do-	
4.4 & Table 1	xvi) Keeping Properties		IS101(Part6/Sec2)	S	One	Once in three months	

Note-1: Whether test equipment is required or sub-contracting is permitted in column 2 shall be decided by the Bureau and shall be mandatory. Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empaneled by the Bureau.

Note-2: 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 B.O. Head.