

**DRAFT AMENDMENT
FOR PUBLIC COMMENT**

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Draft Amendment No. 1 to Singapore Standard 500 : 2015 Specification for elastomeric wall coating

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Specification for elastomeric wall coating

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1. Page 7, Clause 2 Normative references

Replace with the following:

The following referenced documents are indispensable for the application of this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ASTM D412	Standard test methods for vulcanized rubber and thermoplastic elastomers – Tension
ASTM D610	Standard practice for evaluating degree of rusting on painted steel surfaces
ASTM D1014	Standard practice for conducting exterior exposure tests of paints and coatings on metal substrates
ASTM D1653	Standard test methods for water vapor transmission of organic coating films
ASTM D3359	Standard test methods for rating adhesion by tape test
BS 4800	Schedule of paint colours for building purposes
IEC 62321-7-2	Determination of certain substances in electrotechnical products - Part 7-2: Hexavalent chromium - Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method
ISO 11890 Part 1	Paints and varnishes – Determination of volatile organic compound (VOC) content – Part 1: Difference method
ISO 11890 Part 2	Paints and varnishes — Determination of volatile organic compounds (VOC) and/or semi volatile organic compounds (SVOC) content — Part 2: Gas-chromatographic method
SS 5	Methods of test for paints, varnishes and related materials
Part A3	Standard panels for testing
Part B2	Determination of non-volatile matter content
Part B4	Condition in container
Part B7	Density
Part B9	Brushing properties
Part B12	Consistency of paints using the Stormer viscometer

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Part B13	Fineness of grind
Part C4	Determination of low concentrations of mercury in paint by atomic absorption spectroscopy
Part C6	Determination of low concentrations of lead, cadmium and cobalt in paint by atomic absorption spectroscopy
Part D6	Hard dry time – Test using a mechanical recorder
Part E1	Determination of gloss value at 20°, 60° and 85°
Part E2	Determination of contrast ratio (opacity) of light-coloured paints at a fixed spreading rate
Part E3	Visual comparison of the colours of paints
Part F6	Determination of wet-scrub resistance
Part G2	Alkali resistance (spotting method)
Part G11	Methods of exposure to laboratory light sources — General guidance
Part G12	Methods of exposure to laboratory light sources — Xenon-arc lamps

SS 345 Specification for algae resistant emulsion paint for decorative purposes

NOTE –

- IEC 62321-7-2 is used for the evaluation of Cr(VI) content in electrotechnical products and can also be used for coatings.

2. Page 9, Table 1 – Quantitative requirements of the coating

Replace the row on Hard-drying time and heavy metals requirements for lead, including its maximum limit requirement, as shown in the table below:

Characteristic	Requirement	
	Minimum	Maximum
Hard-drying time, minutes	-	30
Heavy metals requirements, ppm (mg/kg) of dried paint film		
Lead		90

3. Page 11, 6.4.10 Specific hazardous substances

Replace “N-methyl pyrrolinone (NMP)” with “N-methyl pyrrolidone (NMP)”.

4. Page 11, 6.7 Dirt retention property requirement – Natural weathering

In the second sentence, *delete* “ASTM D3719”.

Insert the following under subclause 6.7:

$$Dc = \frac{L_B^*}{L_A^*} \times 100$$

where

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L_A^* – arithmetic mean of unexposed specimen lightness values in the CIE 1976 $L^*a^*b^*$ Uniform Colour Space (CIE LAB)

L_B^* – arithmetic mean of exposed specimen lightness values in the CIE 1976 $L^*a^*b^*$ Uniform Colour Space (CIE LAB)

5. Page 12, 7.1.8 Hard-drying time

In the second sentence, *replace* “Allow it to dry and test for hard-drying in accordance with the method specified in Table 2.” with “Determine the hard-dry time in accordance with the method specified in Table 2.”

6. Page 14, Table 2 – Test methods

Under Natural weathering test, *delete* “ASTM D3719” in the column of Method of test.

Replace the test method of accelerated weathering, hard-drying time and chromium (VI) content as shown in the table below:

Test	Method of test (Refer to SS 5 unless otherwise specified)	Requirement in this standard
Accelerated weathering	SS 5 : Part G11 and SS 5 : Part G12 method A	6.4.5
Hard-drying time	SS 5 : Part D6	Table 1
Heavy metals Chromium (VI)	IEC 62321-7-2	Table 1