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(ICS 87.040)

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Specification for water-based sealer for interior and exterior uses

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Specification for water-based sealer for interior and exterior uses

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Contents

		Page
Foreword		6
1	Scope	7
2	Normative references	7
3	Definition	8
4	Approved sample	8
5	Sampling and preparation	8
6	Requirements	8
7	Testing	10
8	Keeping qualities	12
9	Packaging	12
10	Marking	12

Annexes

A	Measurement of colour lightness (L* value) (informative)	13
B	Sealing properties (normative)	14
C	Testing arrangements (informative)	15

Tables

1	Quantitative requirements of the sealer	9
2	Test methods	11

Foreword

This Singapore Standard was prepared by the Working Group appointed by the Technical Committee on Surface Coatings under the direction of the Chemical Standards Committee.

This standard was based on a series of laboratory test undertaken to develop a specification for a water-based sealer suitable for use under the climatic conditions in Singapore which is situated in the tropics.

SS 579 : 2012 was amended in September 2014 to provide further information on the water resistance test.

This standard is a revision of SS 579 : 2012. The main changes in the revised edition are as follows:

a) Inclusion of quantitative requirements on heavy metals and VOCs;

b) Inclusion of qualitative requirements on solvents and specific hazardous substances.

In preparing this standard, reference was made to Australian Standard AS 3730.18-2006 – 'Guide to the properties of paints for buildings – Undercoat/sealer – Latex – Interior/exterior'. Acknowledgement is made for the use of information from this standard.

This standard is expected to be used by paint manufacturers, suppliers, test laboratories, contractors, applicators, architectural associations, consultants, facilities/property managers, land surveyors and related government agencies.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. SPRING Singapore shall not be held responsible for identifying any or all of such patent rights.

NOTE

1. *Singapore Standards are subject to periodic review to keep abreast of technological changes and new technical developments. The changes in Singapore Standards are documented through the issue of either amendments or revisions.*

2. *Compliance with a Singapore Standard does not exempt users from legal obligations*.

Specification for water-based sealer for interior and exterior uses

1 Scope

This standard applies to ready-to-use, air drying water-based sealer for both interior and exterior uses. The standard is developed for sealer applied on concrete surfaces. If application is on large skimmed surfaces or other surfaces, purchaser shall discuss requirements with vendor.

2 Normative references

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

ASTM D3359	Standard test methods for measuring adhesion by tape test – Method A
IEC 62321 : 2008	Electrotechnical products - Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)
ISO 2812-2	Paints and varnishes - Determination of resistance to liquids – Part 2: Water immersion method
ISO 8336	Fibre-cement flat sheets – Product specification and test methods
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 compound (VOC) content – Part 2 : Gas-chromatographic method
SS 5	Methods of test for paints, varnishes and related materials Part A1 : Sampling Part A2 : Examination and preparation of samples for testing Part A4 : Temperature and humidities for conditioning and 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 Part B13 : Fineness of grind Part D5 : Determination of through-dry state and through-dry time Part E2 : Determination of contrast ratio (opacity) of light-coloured paints at a fixed spreading rate Part E3 : Visual comparison of the colour of paints

NOTE –
1 The review of the SS 5 series was completed in 2013.
2 IEC 62321 : 2008 is used for the evaluation of Cr(VI) content in electrotechnical products and can also be used for coatings.