

SS 502 : 2019
(ICS 87.020)

SINGAPORE STANDARD

Specification for textured coatings for exterior walls



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Published by Enterprise Singapore

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ISBN 978-981-48-9455-5

The content of this Singapore Standard was approved on 19 November 2019 by the Chemical Standards Committee (CSC) under the purview of the Singapore Standards Council.

First published, 2003

First revision, 2019

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CSC sets up the Technical Committee on Surface Coatings that prepares this standard. The Technical Committee consists of the following members:

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Foreword

This Singapore Standard was prepared by the Technical Committee on Surface Coatings under the purview of CSC.

Textured coating systems are commonly used in the building and construction industry. This specification provides a minimum requirement for specifiers such as architects, so as to save cost and yet achieve the best performance of the coating system.

This is a revision of SS 502 : 2003 which made reference to the Japanese Industrial Standard JIS A 6909 : 1995, "Coating materials for textured finishes of buildings". The major changes in the revised edition are as follows:

- a) Replacement of performance criteria "washability" with "wet-scrub resistance" as described in SS 5 Part F6 Determination of wet-scrub resistance;
- b) Inclusion of quantitative requirements on heavy metals;
- c) Inclusion of qualitative requirements on specific hazardous substances.

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

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

NOTE

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions. Where SSs are deemed to be stable, i.e. no foreseeable changes in them, they will be classified as "Mature Standards". Mature Standards will not be subject to further review, unless there are requests to review such standards.*
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3. *Compliance with a SS or TR does not exempt users from any legal obligations.*

Specification for textured coatings for exterior walls

1 Scope

This standard applies to textured coatings on concrete surfaces (including plastered brick and block walls) for exterior walls of buildings. It is well-known that there is a great variety of textured coatings systems available and it is virtually impossible to stipulate a standard specification. This standard focuses on the performance requirements of the textured coating system so that regardless of the nature of the individual coats, whether water-based or solvent-based, rigid or elastic, etc, the system will be able to comply with the requirements.

2 Normative references

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 D1014	Standard practice for conducting exterior exposure tests of paints and coatings on metal substrates
ASTM D4541	Standard test method for pull-off strength of coatings using portable adhesion testers
DIN 1048-5	Testing concrete; testing of hardened concrete (specimens prepared in mould)
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
SS 5	Methods of test for paints, varnishes and related materials Part A1 Sampling Part A2 Examination and preparation of samples for testing Part A3 Preparations of panels prior to testing 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 F6 Determination of wet-scrub resistance Part G2 Alkali resistance (spotting method) Part G9 Artificial weathering and exposure to artificial radiation – Exposure to filtered xenon-arc radiation
SS 345	Algae resistance emulsion paint for decorative purposes