



GB 18582-2020

Limit of Harmful Substances of Architectural Wall Coatings

建筑用墙面涂料中有害物质限量

Authorities: SAMR, SAC

Release Date: Mar. 04, 2020

Implementation Date : Dec. 01, 2020

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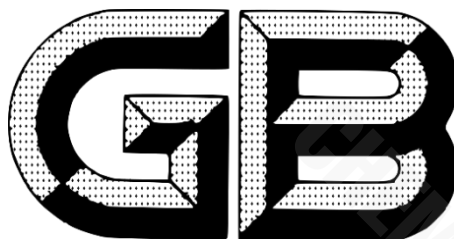
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ICS 87.040

G 51



National Standard of the People's Republic of China

GB 18582 -2020

Substitute GB 18582-2008, GB 24408-2009

Limit of harmful substances of architectural wall coatings

Date of Issuance: 2020-03-04

Date of Implementation: 2020-12-01

Issued by:

State Administration for Market Regulation

Standardization Administration of the People's Republic of China

Foreword

All technical contents in this standard are mandatory.

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is developed to substitute GB 18582-2008 Indoor decorating and refurbishing materials-Limit of harmful substances of interior architectural coatings and GB 24408-2009 Limit of harmful substances of exterior wall coatings. This standard is formulated mainly based on GB 18582-2008 and integrates the contents of GB 24408-2009. Compared with GB 18582-2008, the main technical changes except editing changes are as follows:

- Modified the scope of the standard (Chapter 1, and Chapter 1 of GB 18582-2008);
- Deleted the normative reference "GB/T 601, GB/T 1250"; changed "GB/T 3186-2006" to "GB/T 3186", changed "GB/T 6682" to "GB/T 6682-2008", added the normative references "GB/T 1725-2007, GB/T 8170-2008, GB 15258, GB/T 23985-2009, GB/T 23986-2009, GB/T 23990-2009, GB/T 23991-2009, GB/T 23992-2009, GB/T 23993-2009, GB/T 30647-2014, GB/T 31414-2015" (Chapter 2, and Chapter 2 of GB 18582-2008);
- Added the terms and definitions of "building", "architectural wall coatings", "decorative panel coatings", "effect pigment" and "application condition" (Chapter 3);
- Modified the definitions of "volatile organic compound (VOC)" and "volatile organic compound content" (Chapter 3, and Chapter 3 of GB 18582-2008);
- Added product classification (Chapter 4);
- Changed "water-based wall coatings" to "interior wall coatings", "water-based wall putty" to "putty", "free formaldehyde" to "formaldehyde content", "Total benzene, toluene, ethylbenzene, xylene"

to “total BTEXs content”; modified the item indicators of “VOC content”, “formaldehyde content”, “total BTEXs content”; deleted the item and indicator of “lead (Pb)” in “soluble heavy metals”; added the items and indicators of “total lead (Pb) content” and “total APEO content” (Table 1, and Table 1 of GB 18582–2008)

- Added “exterior wall coatings” items and indicators (Table 1);
- Added “decorative panel coatings” items and indicators (5.2);
- Modified the test methods for “VOC content”, “formaldehyde content”, “total BTEXs content” and “soluble heavy metals content” (6.2, and 5.2 of GB 18582–2008);
- Added the test method for “total lead (Pb) content”, “total APEO content”, “total glycol ethers and ether esters content”, “total halogenated hydrocarbons content” (6.2)
- Modified the content of judgment of test results (7.2, and 6.2 of GB 18582–2008)
- Modified the content of package mark (Chapter 8, and Chapter 7 of GB 18582–2008)
- Deleted the section “Painting Safety and Protection” (Chapter 8 of GB 18582–2008)
- Added the section “Implementation of Standard” (Chapter 9).

This Standard was proposed by and is under the jurisdiction of the Ministry of Industry and Information Technology of the People's Republic of China.

The previous versions replaced by this standard are as follows:

- GB 18582–2001, GB18582–2008;
- GB 24408–2009.

Limit of harmful substances of architectural wall coatings

1. Scope

This standard specifies the product classifications, requirements, test methods, inspection rules, package marks and implementation of standard of the permissible limits of the substances that are harmful to humans and the environment in architectural wall coatings.

This standard applies to onsite painting and industrialized painting of a variety of architectural wall coatings used for decorating or protecting the inner and outer surface of buildings of which the base materials are cement and other non-metallic materials (except wood).

2. Normative References

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

GB/T 1725–2007 Paints, varnishes and plastics – Determination of non-volatile-matter content

GB/T 3186 Paints, varnishes and raw materials for paints and varnishes – Sampling

GB/T 6682–2008 Water for analytical laboratory use – Specification and test methods

GB/T 6750–2007 Paints and varnishes – Determination of density – Pyknometer method

GB/T 8170–2008 Rules of rounding off for numerical values & expression and judgement of limiting values



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