

HJ

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

HJ 2537-2014

**Technical requirements for environmental labeling products -
Water based coatings
(English Translation)**

Issued on: March 31, 2014

Implemented on: July 1, 2014

Issued by: Ministry of Environmental Protection

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Foreword

In order to implement the "Environmental Protection Law of the People's Republic of China", to reduce the impact of coatings on the environment and human health during production and use, and to protect the environment, this Standard has been formulated.

This Standard proposes the limit requirements for harmful substances in water based coatings.

This Standard has revised "Technical requirement for environmental labeling products - Water based coatings" (HJ/T 201-2005). The main changes are as follows:

- ADJUST the scope of the standard;
- ADJUST the requirements for substances that cannot be artificially added;
- ADD the limit requirements for glycol ethers and esters;
- IMPROVE the limit requirements for volatile organic compounds;
- IMPROVE the limit requirements for the total amount of benzene, toluene, xylene and ethylbenzene.

This Standard applies to China's environmental labeling product certification.

This Standard was formulated by Department of Science and Technology Standards of the Ministry of Environmental Protection.

Main drafting organization of this Standard: Environmental Development Center of the Ministry of Environmental Protection.

This standard was approved by the Ministry of Environmental Protection on March 31, 2014.

This Standard was implemented from July 1, 2014.

This standard is explained by the Ministry of Environmental Protection.

The previous released versions replaced by this Standard are as follows:

- HJ/T 201-2005, HBC 12-2002, HJBZ 4-1999, HJBZ 4-1994.

Technical requirement for environmental
labeling products - Water based coatings

1 Scope

This Standard specifies the terms and definitions, basic requirements, technical contents and inspection methods of environmental labeling products of water based coatings.

This Standard applies to water based coatings and matching putty.

This Standard does not apply to water based waterproof coatings and water based marine coatings.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For undated references, the valid versions apply to this Standard.

GB 18582-2008 Indoor decorating and refurbishing materials - Limit of harmful substances of interior architectural coatings

GB 18583-2008 Indoor decorating and refurbishing materials - Limit of harmful substances of adhesives

GB 24409-2009 Limit of harmful substances of automobile coatings

GB/T 6750-2007 Paints and varnishes - Determination of density - Pycnometer method

GB/T 9754-2007 Paints and varnishes - Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°

GB/T 23986-2009 Paints and varnishes - Determination of volatile organic compound (VOC) content - Gas-chromatographic method

GB/T 23993-2009 Determination of formaldehyde content of waterborne coatings - Spectrophotometric method with acetylacetone

Evaluation Index System for Cleaner Production in Coatings Industry (Trial),

6.1 The test of volatile organic compounds (VOC) in Technical Contents 5.2 is

carried out according to the method specified in GB/T 23986-2009. The test of density is carried out according to GB/T 6750. The test of moisture is carried out according to Annex B of GB 18582-2008. The calculation of VOC in architectural coatings is carried out according to 10.4 of GB/T 23986-2009; the calculation of VOC in industrial coatings is carried out according to 10.3 in GB/T 23986-2009; the calculation of VOC in putty is carried out according to 10.2 in GB/T 23986-2009. The test of specular gloss of interior architectural coatings is carried out according to GB/T 9754.

6.2 The test of ethylene glycol and its esters in Technical Contents 5.2 is carried
out according to the method specified in GB 24409-2009.

6.3 The test of formaldehyde in Technical Contents 5.2 is carried out according
to the method specified in GB/T 23993-2009.

6.4 The test of benzene, toluene, xylene and ethylbenzene in Technical
Contents 5.2 is carried out according to the method specified in GB 18582-2008.

6.5 The test of halogenated hydrocarbons in Technical Contents 5.2 is carried
out according to the method specified in GB 18583-2008.

6.7 Other indicators in Technical Contents are verified through document review
combined with on-site inspection.

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