

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JG/T 481-2015

**Water-based interior wall coating with low-emission volatile
organic compounds (VOC)
(English Translation)**

Issued on: November 23, 2015

Implemented on: April 1, 2016

**Issued by: Ministry of Housing and Urban-Rural Development of the
People's Republic of China**

Table of Contents

Foreword...	3
1 Scope...	4
2 Normative references...	4
3 Terms and definitions...	5
4 Classification and marks...	5
5 General requirements...	6
6 Limits of hazardous substances and requirements for physical properties...	6
7 Test methods...	8
8 Inspection rules...	10
9 Signs, packaging, transport and storage...	11
Annex A (informative) Substances that shall not be contained in the product	12

Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard was proposed by Institute of Standard Quotas, Ministry of Housing and Urban-Rural Development.

This Standard shall be under the jurisdiction of Technical Committee for Standardization of Building Products and Components of the Ministry of Housing and Urban-Rural Development.

Main drafting organizations of this Standard. Shanghai Building Research Institute (Group) Co., Ltd.

The drafting organizations of this Standard. Shanghai Jianke Inspection Co., Ltd., Dow Chemical (China) Investment Co., Ltd., Xiamen Engineering Testing Center Co., Ltd., Nippon Paint (China) Co., Ltd., Sichuan Academy of Building Materials Industry Science, Shanxi Jiayufeng Chemical Technology Co., Ltd., Celanese (China) Investment Co., Ltd., Eastman (Shanghai) Chemical Business Co., Ltd., Shanghai Yanyi Wall Material Technology Co., Ltd., AkzoNobel Swire Paints (Shanghai) Co., Ltd., Sichuan Jiabaoli Coating Co.,

Ltd., National Chemical Building Materials Testing Center, Wacker Chemical (China) Co., Ltd., Shanghai Bao Li Jia Chemical Co., Ltd., BASF (China) Co., Ltd., Shunde District of Foshan City, Bud Fu Industrial Co., Ltd., Shanghai Qiaomao Building Waterproof Material Co., Ltd., Tsinghua University, Xuanwei (Shanghai) Coating Co., Ltd., Crocodile Paint (Shanghai) Co., Ltd., Shanghai Jiabaoli Coating Co., Ltd.

Main drafters of this Standard. Hu Xiaozhen, Ren Binbin, Qiu Cong, Zhao Min, Huang Xinhui, Jing Weijie, Xu Yanhua, Tang Lei, Lyu Ping, Qiu Xinghua, Shi Yifang, Li Jingguang, Zhang Yinping, Zeng Changying, Wang Zhenhua, Yang Weijiang, Wang Yan, Zhu Liguang.

Water-based interior wall coating with low-emission
volatile organic compounds (VOC)

1 Scope

This Standard specifies the terms and definitions, classification and marks, requirements, test methods, inspection rules, signs, packaging, transport and storage of water-based interior wall coating with low-emission volatile organic compounds (VOC).

This Standard is applicable to water-based coating materials such as paste putty, primer, topcoat, and wood paint used for interior decoration.

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 3186, Paints varnishes and raw materials for paints and varnishes -
Sampling

GB/T 6682, Water for analytical laboratory use - Specification and test
methods

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

GB/T 9750, Marks for package of coating products

GB/T 9756-2009, Synthetic resin emulsion coatings for interior wall

GB/T 9780-2013, Test Method for Dirt Pickup Resistance and Stain Removal
of Film of Architectural Coatings and Paint

GB 11614, Flat glass

GB/T 13491-1992, General rule for packing of coatings

GB/T 15608, The Chinese color system

GB/T 18204.2-2014, Examination methods for public places - Part 2.

Chemical pollutants

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 water-based interior wall coating with low-emission volatile organic compounds (VOC)

The interior wall coating material that has low volatile organic compound (VOC)
content and low total volatile organic compound (TVOC) emission level under
conditions that meet basic physical properties.

4.1 Classification

The water-based interior wall coating with low-emission volatile organic
compounds (VOC) is classified according to the following rules.

5 General requirements

The product shall not contain harmful substances. See Annex A.

6 Limits of hazardous substances and requirements for physical properties

6.1 Limits of hazardous substances

The limits of hazardous substances in the product shall meet the requirements of Table 1.

6.3.3 The physical properties of interior wall paint shall meet the requirements of Table 5.

6.3.4 The physical properties of wood paint shall meet the requirements of Class C decoration paints in GB/T 23999-2009.

7.1.1 The products shall be sampled according to GB/T 3186.The sampling size shall be determined according to inspection needs.

7.1.2 Laboratory standard test conditions. temperature of $23^{\circ}\text{C}\pm 2^{\circ}\text{C}$, relative humidity of $50\%\pm 5\%$.

7.2 Hazardous substance limits

The hazardous substance limits in paste putty, interior wall primer and interior wall paint shall be in accordance with GB 18582. The hazardous substance limits in wood paint shall be in accordance with GB 24410. Hexavalent chromium is carried out in accordance with Annex F in GB 24408-2009.

7.3.1 Total volatile organic compounds (TVOC) emission level

Total volatile organic compounds (TVOC) emission level is in accordance with Annex B.

7.4.1 The properties of paste putty are in accordance with Clause 6 of JG/T 298-2010.

7.4.2 The properties of interior wall primer are in accordance with Clause 6 of JG/T 210-2007.