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

JG/T 309-2011

**Determination and classification of water-vapour transmission
rate (permeability) for exterior wall coatings**
(English Translation)

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Foreword

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

This standard uses the redrafted law to amend the use of ISO 7783-2.:1999 "Paints and varnishes masonry and concrete exterior coatings and coatings System Part II. Determination and classification of water vapor transmission rate ", and ISO 7783-2.:1999 The main technical differences are as follows.

- Increasing the preparation of the sample method;
- Added Appendix A, Appendix B and Appendix C;
- Supplementary sample test process;
- Modify the sample maintenance time;
- Modify the method of determination of dry film thickness.

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Construction Building Products and Components Products Standardization Technical Committee.

1 Scope

This standard specifies the method and classification of water vapor transmission rate of exterior paint coatings Terms and definitions, principles, equipment and materials, specimens, steps Steps, results presentation, accuracy, grading and test reports.

This standard applies to industrial and civil buildings brick, stone, concrete and other porous substrate used in exterior paint.

This standard does not apply to non-filming or affect the porosity of porous substrate products.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 3186-2006 Paints, varnishes and raw materials for paints and varnishes - Sampling (ISO 15528.:2000) GB/T 6682-2008 analytical laboratory water specifications and test methods (ISO 3696. 1987) GB/T 13452.2-2008 Paints and varnishes - Determination of film thickness (ISO 2808.:2007)

3 Terms and definitions

The following terms and definitions apply to this document.

Water vapor transmission rate V water-vapourtransmissionrate at a certain temperature, the coating film on both sides of the relative humidity remains constant conditions, the unit of time, per unit area through the water vapor quality.

The same amount of air layer thickness S_d diffusion-equivalent air layer thickness the thickness of the static air layer with the same water vapor permeability as the coating under the same conditions.

4 Principle

[illegible]

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 "" "" "" "" "" "" "" "" " Call at the appropriate time interval when the mass change is
 proportional to the change of the time interval, the water vapor transmission rate can be
 determined by the change of mass.

5.1 Test cup

Should comply with the provisions of Appendix A.

5.2 Sealants

See Appendix B.