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

GB/T 29499-2013

Synthetic resin curtain-wall-imitation coatings for buildings

建筑用仿幕墙合成树脂涂层

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Quarantine;
Standardization Administration of the PRC**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. The standard proposed by the Ministry of Housing and Urban-Rural Development of the People's Republic of China. This standard by the National Standardization Technical Committee building components and parts (SAC/TC454) centralized. This standard was drafted. Shenzhen Hi-Tech Industrial Development Co., Ltd. Jiada, National Chemical Building Materials Testing Center, Union (Foshan) of Engineering Co., Ltd., Shenzhen Jiada energy saving Technology Co., Ltd., Shenzhen Institute of Standards and Technology, Shaanxi Institute of Technology. The main drafters of this standard. Xiong, Kwan Jun, Tan Liang, Ma Jie, high Zhenya, Peng Xuan, Conlon country, Zhang Yingtang. Building synthetic resin coating imitation curtain wall

1 Scope

China's national standard for synthetic resin curtain-wall-imitation coatings used on buildings. It specifies the terms and definitions, the product classification, the basic construction, the materials, the requirements, the test methods, the inspection rules and the marking, packaging and storage of the coating systems that give a rendered facade the appearance of a glass or metal curtain wall. A curtain wall is expensive. It is a structural glazing system with its own frame, its own drainage, its own fixings and its own installation trade, and on a mid-market building it is frequently the single largest facade cost. The imitation coating gives the appearance at a fraction of the price: a multi-layer coating system applied to the substrate, with the panel joints and the frame lines rendered as part of the finish, producing a facade that reads as a curtain wall from the street. Whether that is architecturally desirable is not the standard's question. What the standard has to do is make sure the thing performs as a facade coating, because the imitation is only worth having if it lasts. That is where these systems fail: a coating that reproduces the appearance perfectly and chinks, cracks or discolours in three years has cost the building owner the difference twice over. So the standard specifies the system as a system - the putty, the primer and the finish coat together, with the basic construction of the layers - rather than specifying the finish coat alone, because the performance of the assembly is what the facade

experiences. The requirements cover the appearance, the adhesion, the flexibility, the resistance to water, to alkali and to impact, the artificial weathering, the freeze-thaw resistance and the dirt pick-up. Issued on 7 May 2013 and in force since 1 December 2013.

This standard specifies the terms and definitions used in construction of the synthetic resin coating imitation curtain wall, product classification, basic construction, materials, requirements, test side Method, inspection rules, marking, packaging and storage. This standard applies to the putty, primer and paint, has a facade appearance of coating requirements for construction and testing.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 175 Common Portland Cement

GB/T 1733-1993 Determination of water resistance of the film

GB/T 1766 Paints and varnish coating aging rating method

GB/T 1865 Paints and varnishes - Artificial weathering and exposure to artificial radiation filtered xenon arc radiation Laboratory use specifications and test methods GB/T 6682 Analysis

GB/T 9265 architectural paints and coatings Determination of alkali resistance

GB/T 9271 Paints and varnishes - Standard panels for

GB/T 9278 paint sample conditioning and testing temperature and humidity

GB/T 9750 product packaging and marking paint

GB/T 9780 architectural paints and coatings stain resistance test method

GB/T 13491 General Paint Pack

GB/T 15608-2006 Chinese color system

GB/T 17671 cement mortar strength test method (ISO method)

HG/T 3792-2005 cross-linking fluorine resin coating JC/T 412.1-2006 fiber cement plates - Part 1. Non-asbestos fiber cement flat JC/T 841-2007 alkali-resistant glass fiber mesh JG/T 157-2009 exterior wall putty JG158-2004 powder polystyrene particles exterior insulation and finish systems Within JG/T 210-2007 exterior wall primer JGJ52 ordinary concrete sand, stone quality standards and test methods

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Synthetic resin coating imitation curtain syntheticresincurtain-wal-imitationcoating

Synthetic resin as the main binder material, a pigment, an extender pigment and various additives formulated into various putty and paint, applied in a hierarchical On the building wall, forming a layer having a curtain wall decoration appearance.