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

JG/T 271-2019

**Structural adhesives for strengthening structures with steel
plate
(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 is a revision of JG/T 271-2010 "Building Structural Adhesives for Steel Reinforcement". JG/T 271-2010 Abolished from the date of implementation. Compared with JG/T 271-2010, the main technical changes of this standard are as follows.

- Modified the environmental performance requirements of viscous steel glue (see 5.1);
- Modified the mechanical performance index requirements of the steel-bonded steel adhesive for concrete-based adhesive steel (see 5.4);
- Increase the mechanical performance index requirements for steel adhesives with steel as the base material (see 5.4);
- Modified the situation of type inspection (see 7.1.2).

This standard was proposed by the Standard Quota Research Institute of the Ministry of Housing and Urban-Rural Development.

This standard is under the jurisdiction of the Technical Committee for Building Maintenance and Reinforcement and Real Estate Standardization of the Ministry of Housing and Urban-Rural Development.

1 Scope

This standard stipulates the terms and definitions, classification and marking, requirements, test methods, inspections, etc.

Inspection rules, signs, packaging, transportation and storage.

This standard is applicable to building structural adhesives for the reinforcement of concrete structures and steel structures.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article. For the cited documents without date, the latest version (including all amendments) applies to this document.

GB/T 2567-2008 Resin casting body performance test method GB/T 2793-1995 Determination of nonvolatile content of adhesive GB/T 2794-2013 Determination of viscosity of adhesives Single cylinder rotating viscometer method GB/T 2828.1-2012 Counting Sampling Inspection Procedure Part 1. Sampling by Batch Inspection Retrieved by Acceptance Quality Limit (AQL) plan GB/T 6329-1996 Determination of tensile strength of adhesive butt joints GB/T 7123.1-2015 Determination of the operating time of multi-component adhesives GB/T 7124-2008 Determination of tensile and shear strength of adhesives (rigid materials to rigid materials) GB 12007.7-1989 Determination of gel time of epoxy resin GB 18583-2008 Limits of harmful substances in adhesives for interior decoration materials

3 Terms and definitions

The following terms and definitions apply to this document.

Scratch coating reinforced structural adhesive scratchingstrengtheningstructuraladhesive Adhesive steel glue used in scrape coating process is applied on the surface of concrete and steel.

Groutingstrengtheningstructuraladhesive Adhesive steel glue used in the injection process is adopted between the gap between concrete and steel, steel and steel.

4.1 Classification

4.1.1

According to the construction method, it is divided into scraper-reinforced type S and infusion-reinforced type G.

4.1.2

According to the construction environment temperature, it is divided into normal temperature curing type N (10 °C ~ 40 °C) and low temperature curing type L (-5 °C ~ 10 °C)

4.2 Mark

The mark of the product is composed of the product code, the construction method code, the construction environment temperature code and the standard number.