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

JG/T 387-2012

**Filled epoxy-coated prestressing steel strand
(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 translation method identical with ASTM A882-04a (2010) "Epoxy coated filled seven-wire prestressing strand standard, and the main technical differences of ASTM A882-04a (2010) are as follows.

- Canceled the 6.35mm, 7.94mm, 9.53mm specifications epoxy coated prestressed steel strand;
- Increased 15.7mm, 17.8mm, 21.6mm specifications epoxy coated prestressed steel strand;
- Supplemented epoxy-coated prestressing strand physical and mechanical properties;
- Added Appendix B epoxy coated prestressed steel wire friction performance test method.

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 Standardization

Technical Committee centralized.

1 Scope

This standard specifies the classification and marking of filled epoxy-coated prestressed steel strands, pre-treatment of materials, prestressed strand, coating Cover and repair, requirements, test methods, inspection rules, signs, packaging and quality certificates.

This standard applies to filled epoxy coating prestressed strand production and testing.

This standard does not apply to monofilament spray type epoxy coated prestressed steel wire.

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.

Tensile testing of metallic materials - Part 1. Test methods at room temperature GB/T 228.1-2010 GB/T 2103 wire acceptance, packaging, marking and quality certificate of the general provisions GB/T 5224 strand for prestressed concrete GB/T 8923 steel surface coating before rust level and rust level GB/T 10125 artificial atmosphere corrosion test salt spray test GB/T 13452.2 Paints and varnishes - Determination of film thickness GB/T 14684 building sand SY/T 0040 pipeline coating anti impact test method (drop hammer test method) ISO 6272-2 Paints and varnishes Rapid Impact (Impact) test [Paintsandvarnishes-Rapid-deformation (im-pactresistance) tests-Part 2. Faling-weighttest, smal-areaindenter]

3 Terms and definitions, symbols

The following terms and definitions, symbols apply to this document.

3.1 Terms and definitions

3.1.1

Filled Epoxy Coated Strand filedepoxy-coatedstrand the outer layer is coated with a fusion bonded epoxy coating, the interstices between the wires being completely filled by the fusion bonded epoxy coating to prevent corrosive media from passing through the hairs Fine force or other hydrostatic invasion of prestressed steel wire. In accordance with whether the surface is embedded sand into the embedded sand epoxy coating prestressed steel Stranded and smooth epoxy coated prestressing strand.

3.1.2

Fusion bonded epoxy coating Coatings comprising pigments, thermosetting epoxy resins, crosslinkers and other additives are applied in powder form on a clean and preheated gold is a matrix, melting to form a continuous coating.

3.1.3

Bonding failure disbonding Melt bond between epoxy coating and strand loses bond.