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GA

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

GA 98-2005

Replacing GA 98-1995

Fire resistive coating for concrete structure

混凝土结构防火涂料

(English Translation)

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Foreword

Chapters 5, 6, and 7 of this standard are mandatory, and the rest are recommended.

This standard replaces GA 98-1995 "General Technical Conditions for Prestressed Concrete Floor Fireproof Coatings" from the date of implementation.

The main difference between this standard and GA 98-1995 is that the thermal conductivity requirements are eliminated; the performance requirements of tunnel fire retardant coatings are increased.

experiment method. The test modification for the fire resistance of tunnel fire retardant coatings was carried out using BSEN1363-2:1999 Fireresistance tests-Part 2. Alternativeandadditionalprocedures "Fire Test Part 2. Optional Programs and Additional Programs" and GT-9806398-CVB-R1161FIREPROTECTIONFORTUNNELSPart 1. firetestprocedureforimмер-Sedtunnels "Tunnel Fire Protection Part I. Fire Test Procedure for Buried Tunnels" was formulated.

Appendix A of this standard is a normative appendix.

This standard was proposed by the Fire Department of the Ministry of Public Security.

This standard is under the jurisdiction of the 7th Technical Committee of the National Fire Protection Standardization Technical Committee.

1 Scope

This standard specifies the definition and classification of concrete structure fireproof coatings, requirements, test methods, inspection rules and signs, packaging, transportation, Storage.

This standard applies to fireproof coatings on concrete surfaces such as industrial and civil

buildings and roads, railways (including subway) tunnels.

2 Normative references

The terms in the following documents become the terms of this standard by reference to this standard. All dated references, followed by all Modifications (not including errata content) or revisions are not applicable to this standard, however, parties to agreements based on this standard are encouraged to study Whether to use the latest version of these files. For undated references, the latest edition applies to this standard.

GB J107 concrete strength inspection and evaluation standard GB/T 1728-1989
Determination of drying time of paint film and putty film GB/T 1733-1993 Determination of water resistance of paint film GB 3186-1982 Sampling of coating products (neq ISO 1512:1974) GB/T 9265-1988 Determination of alkali resistance of architectural coatings GB/T 9978 building component fire test method GB 14907-2002 steel structure fireproof coating JC/T 626 fiber reinforced low alkali cement construction slab JG/T 24-2000 synthetic resin emulsion sand wall architectural coating

3 Terms and definitions

The following terms and definitions apply to this standard.

Coated in industrial and civil buildings and on concrete surfaces such as roads and railway tunnels, it can form a fire-resistant thermal insulation layer to improve its structure.

Fire resistant coating with fire endurance.

4.1.1 Concrete structure fireproof coating is divided according to the place of use

- a) Fire protection coating for concrete components. used for the surface of concrete structural members in buildings.
- b) Tunnel fireproof coating. used for the surface of concrete structures of highways and railway tunnels, characterized by non-expanding type.

4.1.2 Fireproof coatings for concrete members are classified according to their characteristics

- a) Intumescent type. The coating expands and foams at high temperature to form a fire-resistant and heat-insulating protective layer.
- b) Non-expanded type. The coating density is small, and it is fire-resistant and insulated at high temperature.

4.2 Marking

The abbreviation of Chinese Pinyin letters is used as the code name, H stands for fireproof coating, P and F represent expansion type and non-expansion type, respectively, SH stands for the relationship between tunnel fireproof coatings, various types of concrete structure fireproof coatings and code names is as follows.

Intumescent concrete component fireproof coating PH Non-expanded concrete component fire retardant coating FH