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

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Flash setting admixtures for shotcrete

喷射混凝土用速凝剂

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard proposed by the China Building Materials Federation. This standard by the National Standardization Technical Committee cement (SAC/TC197) centralized. This standard is drafted by China Academy of Building Materials Science. Participated in the drafting of this standard. Beijing University of Technology, Yunnan Kaiwei Te New Materials Co., Ltd., Jiangsu Iron Aole New Materials Co., Ltd., China Building Materials Federation of concrete admixture Branch, Zhejiang Wulong New Material Co., Ltd., Shijiazhuang Mayor Yasuhiro Building Materials Co., Ltd., Jiangsu Suboter New Materials Co., Ltd., BASF-Horche Mining and Chemical (China) Co., Ltd., Shenzhen City Maitai concrete Admixture Co., Ltd., China Railway Fifth Group Fifth Engineering Co., Ltd., Shouguang City quick-setting agent plant, Guangdong Red Wall New Materials Co., Ltd., South Jing Rui Di High-tech Co., Ltd., Shandong Hua Wei Yin Kai Building Materials Technology Co., Ltd., Shanxi Sang Musi Building Materials Chemical Co., Ltd., Jiaozuo City, King Building Materials Technology Co., Ltd., Inner Mongolia Autonomous Region Construction Quality Testing Center, China Railway Academy of Railway Construction Research Institute of Building Science, Shandong Province, Yangquan City River Speed Accelerator Factory, Chang'an University, Shanxi Province, admixture of concrete products quality supervision and inspection Heart, Beijing Railway Branch Shougang Rail Technology Co., Ltd., Shanxi Branch Teng Environmental Science and Technology Co., Ltd., Shaanxi days wind Brite mineral building materials Limited, Hebei Iron Park Science and Technology Development Co., Ltd., Shanxi Iron Building Materials Co., Ltd., Wuhan University of Technology building materials, silicate national priorities laboratory. The main drafters of this standard. Wang Ling, Tian Pei, Wang Ming, Zhang Ping, Zhao Xia, Gan Jiezhong, Ran Qianping, Gao Xuemei, Liu Chunping, Wangzhuang, Shen Chau, Chen Weiguo, Yang Fumin, Tian Li'an, Han Hongliang, Wang Lei, Wang Zhixiang, Zhao Lihua, Chen Guoxin, Dong Shuqiang, Jia Jitang, Sun Jianrong, Chen Huaxin, Wei Tong, Wu Ying, Gao Yongli, Liu Guang, Li Huipeng, Li Zhongyi, Zhang Yong, Ma Bao country. Spraying quick-setting admixture for concrete

1 Scope

China's national standard for flash setting admixtures used in shotcrete. Shotcrete is

concrete sprayed at a surface at high velocity, and it is what holds a tunnel or a rock slope up in the hours after excavation. The admixture is what makes it possible: sprayed onto a vertical or overhead surface, ordinary concrete falls off, so an accelerator is injected at the nozzle that takes the mix from fluid to set within seconds. That is a violent chemical intervention, and it comes at a cost the standard exists to bound. Accelerated concrete loses long-term strength compared with the same mix left alone, and the older alkaline accelerators - sodium aluminate and silicate based - lost a great deal of it, as well as being corrosive enough to cause serious burns to the sprayer's crew. Alkali-free accelerators fixed both problems and are now the norm. Specifying setting time, early strength, long-term strength retention and alkali content together is what stops one being bought at the expense of the others.

This standard specifies the terminology and definition of quick-setting agent for shotcrete, classification and marking, requirements, test methods, inspection rules, the product said Ming book, logo, packaging, transportation and storage. This standard applies to the quick-setting agent used in construction of concrete or cement mortar spray method.

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 1345 cement fineness test method Screening method

GB/T 1346 cement standard consistency of water consumption, setting time, stability testing methods

GB/T 8075 concrete admixtures definition, classification, nomenclature and terminology

GB 8076 concrete admixture Test method for uniformity of

GB/T 8077 concrete admixtures

GB/T 17671 cement mortar strength test method (ISO method) JC/T 681 planetary cement mortar mixer JC/T 723 cement mortar shaker JC/T 727 cement paste standard consistency and setting time tester JC/T 729 cement paste mixer JGJ63 concrete water standards

3 Terms and definitions

GB/T 8075 defined and the following terms and definitions apply to this document.

3.1 Fast setting agent flashsettingadmixture Can make concrete or cement mortar rapid hardening hardening admixture.

3.2 Powder quick setting powderflashsettingadmixture Used for spraying concrete or cement mortar powder quick-setting construction.

3.3 Liquid quick-setting agent liquidflashsettingadmixture Liquid quick-setting admixture for spraying concrete or cement mortar.

3.4 Alkali free accelerator alkali-freeflashsettingadmixture Sodium oxide equivalent content of not more than 1.0% quick-setting agent.

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