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

GB/T 23457-2025

Replacing GB/T 23457-2017

Pre-applied waterproofing sheets

预铺防水卷材

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 23457-2017 "Pre-laid Waterproof Membranes". Compared with GB/T 23457-2017, the only changes are structural adjustments and editing. Aside from the sexual alterations, the main technical changes are as follows:

- a) The scope has been changed (see Chapter 1, Chapter 1 of the.2017 edition); (b) The terminology and definition of "pre-laid waterproof membrane" have been changed (see 3.1,.2017 edition of 3.1);
- c) The term and definition of "water resistance" have been removed (see section 3.2 of the.2017 edition);
- d) The categories and labels have been changed (see Chapter 4, Chapter 4 in the.2017 edition);
- e) A schematic diagram of a typical product structure has been added (see 4.1);
- f) Removed "Tenant strength (P-class, R-class)", "Nail shank tear strength", "Elastic recovery rate (R-class)", "Impact resistance", and "Low temperature bending performance". Requirements and test methods for "(R-type adhesive layer areas)" (see 5.3, 6.8.1, 6.9, 6.10, 6.12, and 6.15 in the.2017 edition);

g) Added the indicator for "TPO" products (see 5.3);

h) Added "Tear strength (P-type, R-type)", "Tear force (PY-type)", "Tenant settling (R-type)", and "Low temperature flexibility (R-type adhesive layer)". "Location", "Overlap seam impermeability", "Seam peel strength (heat treatment)", "Hardness", "Peel strength between adhesive backing and aluminum plate", "Water absorption rate" The indicators and test methods for "total lead content" are detailed in sections 5.3, 6.8, 6.9, 6.10, 6.15, 6.19, 6.22, 6.26, 6.27, 6.28, and 6.29.

i) The indicators and test methods for "puncture resistance", "static load resistance (Class R)" and "hot air aging" have been changed (see 5.3, 6.11,...). (6.12, 6.24; 2017 versions 5.3, 6.11, 6.13, 6.24)

j) The "Factory Inspection Items" have been changed (see 7.1.1, 2017 version of 7.1.1). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Building Materials Federation. This document is under the jurisdiction of the National Technical Committee on Standardization of Lightweight and Decorative Building Materials (SAC/TC195). This document was drafted by: China Building Materials Testing & Certification Group Suzhou Co., Ltd., China Building Waterproofing Association, and Building Materials Industry Technology Supervision Bureau. Supervision and Research Center, Beijing Oriental Yuhong Waterproof Technology Co., Ltd., Beixin Waterproof Co., Ltd., Jiangsu Hongyuan Zhongfu Waterproof Materials Co., Ltd. Company, China Building Materials Suzhou Waterproofing Research Institute Co., Ltd., China Communications First Highway Engineering Bureau Haiwei Engineering Construction Co., Ltd., Shenzhen Zhuobao Technology Co., Ltd. Company, Keshun Waterproof Technology Co., Ltd., Anhui Three Trees Coatings Co., Ltd., Jiangsu Kailun Building Materials Co., Ltd., Shanghai Yuhong (Jinhu) Waterproofing Technology Co., Ltd., Fuping Yuzhongqing Waterproofing Technology Co., Ltd., Hubei Jiuyang Waterproofing Materials Technology Co., Ltd., Sichuan Fei Ling Waterproof Technology Co., Ltd., Guangdong Xintao New Material Technology Co., Ltd., Jiangsu OxyShield Technology Co., Ltd., Alpha New Material Jiang Suzhou Co., Ltd., China Railway Construction Group Co., Ltd., China Construction Third Engineering Bureau Group Co., Ltd., Beijing Yuyang Zeli Waterproof Materials Co., Ltd. Dayu Waterproof Building Materials Group Co., Ltd., Wuhan Hengxing Waterproof Materials Co., Ltd., Jianguo Weiye Waterproof Technology Wangdu Co., Ltd., Tianjin Yushen Building Waterproofing Materials Co., Ltd., Anhui Dechun New Materials Technology Co., Ltd., China National Testing & Inspection Holding Group Co., Ltd. Zhejiang Tianxin Building Materials Co., Ltd., Changshu Sanheng Building Materials Co., Ltd., Henan Huarui Xingye Waterproof Technology Co., Ltd., and Zhongyou Jiahui (Guangdong) Waterproofing Co., Ltd., Zhejiang Shenrun Waterproofing Technology Co., Ltd., Shandong Hailide Waterproofing and Anticorrosion Co., Ltd., China Railway 11th Bureau Group Group Seventh Engineering Co., Ltd., Anhui Youyang Waterproof Technology Co., Ltd., Suzhou Oriental Yuhong Building Materials Co., Ltd., China Building Materials

Testing & Certification Zheng Group Jiangsu Co., Ltd., Beixin Waterproof (Guangdong) Co., Ltd., Qingjian Group Co., Ltd., and Sichuan Xiwo New Materials Co., Ltd. The main drafters of this document are. Zhu Zhiyuan, Yu Yifan, Zhang Yong, Chen Bin, Ding Hongmei, Peng Chao, Bai Hongcheng, Wang Jianxin, Qu Jianmin, and Dai Bin. Gu Dayong, Xu Xiaobo, Wang Gang, Li Xiaoxia, Huang Liang, He Qingye, Tian Yi, Zhang Tao, Peng Wei, Hou Gaoming, Wang Hongbo, Wei Xiangyang, Zeng Aihua, Qin Dingming, Hu Bin, Cheng Xiaohui, Liu Nailin, Wang Chaoqun, Chen Xiaowen, Kong Wei, Li Mingjun, Chen Shuang, Peng Songtao, Zheng Xianming, Zhang Wei, Fan Zengchang, Yang Jianguo Yan Jinxiang, Yuan Zhixin, Gong Chunping, Jiang Yibo, Wu Jianming, Zhao Guowu, Sun Xuechao, Xie Zhongcai, Tian Yakun, Liu Xiaowei, Wang Shang, Zhou Hao, Wang Sheng Zhu Caili, Wu Jianmei, Chen Nan, Fang Ping. The release history of this document and the document it replaces is as follows:

---First published in.2009 as GB/T 23457-2009, and revised for the first time in.2017;

1 Scope

GB/T 23457-2025 is the Chinese national standard covering the membrane laid before the concrete is poured, so that the slab bonds to it and water cannot travel between the two - the bond strength to fresh concrete, the resistance to the pour itself, and the behaviour after a nail or a rebar chair has gone through it. Issued on 2 December 2025, it has been in force since 1 July 2026, replacing GB/T 23457-2017.

This document specifies the classification and marking, requirements, test methods, inspection rules, marking, packaging, storage and transportation of pre-laid waterproof membranes. This document applies to pre-laid waterproof membranes used in waterproofing projects that are bonded to post-cast structural concrete and are not exposed.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 328.2 Test methods for building waterproof membranes - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Using plastic, rubber, or polymer-modified asphalt as the main material, the

self-adhesive surface (pre-laid reverse adhesive side) is applied to the upper surface, excluding the overlapping areas of the roll material. It consists of a pre-applied anti-adhesive protective layer, a lower surface adhesive layer (if needed), and upper and lower surface isolation materials, which adhere to the post-cast concrete structure.

5 Thickness and Mass per Unit Area of Polymer Waterproofing Membranes

GB/T 328.8 Test methods for building waterproof membranes - Part

8 Tensile properties of bituminous waterproof membranes

GB/T 328.10-2007 Test methods for building waterproof membranes - Part

10 Impermeability of bituminous and polymer waterproof membranes

GB/T 328.11-2007 Test methods for building waterproof membranes - Part

11 Heat resistance of bituminous waterproof membranes

GB/T 328.14 Test Methods for Building Waterproofing Membranes Part

14 Low-Temperature Flexibility of Bituminous Waterproofing Membranes

GB/T 328.15 Test methods for building waterproof membranes - Part

15 Low-temperature bending performance of polymer waterproof membranes

GB/T 328.25-2007 Test methods for building waterproof membranes - Part

25. Resistance of bitumen and polymer waterproof membranes to static loads

GB/T 328.26 Test Methods for Building Waterproofing Membranes Part

26. Soluble Content (Content of Impregnating Material) in Bituminous Waterproofing Membranes

GB/T 528-2009 Determination of tensile stress-strain properties of vulcanized rubber or thermoplastic rubber

GB/T 529-2008 Determination of tear strength of vulcanized rubber or thermoplastic rubber (trouser-shaped, right-angled and crescent-shaped specimens)