

ICS 75.080
CCS E 30

CJ

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

CJ/T 529-2018

Cold-mix asphalt recycling agents

冷拌用沥青再生剂

(English Translation)

Issued on: October 30, 2018

Implemented on: April 1, 2019

**Issued by: Ministry of Housing and Urban-Rural Development of the
People's Republic of China**

Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Classification and scope of application
 - 4.1 Classification

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

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

This standard is under the jurisdiction of the Standardization Technical Committee for Roads and Bridges of the Ministry of Housing and Urban-Rural Development.

This standard was drafted. Beijing Jiaotong University, National Engineering Research Center for Highway Maintenance Technology, Shenzhou Construction Group Co., Ltd., Qinghai Province Transportation Science Research Institute, Shenzhen Luqiao Construction Group Co., Ltd., Shanxi Provincial Transportation Science Research Institute, Dalian Municipal Facilities Construction Co., Ltd.

Shandong Xinghua Construction Group Co., Ltd., Chongqing Xinlujie Technology Co., Ltd., Zhejiang Zhongfu Construction Group Co., Ltd., Jilin Jiapeng Group Co., Ltd., Shandong Binzhou Highway Engineering Corporation, China Municipal Engineering Central South Design and Research Institute Co., Ltd., China Railway Shanghai Engineering Bureau Group First Engineering Co., Ltd., China Communications Second Highway Engineering Bureau Co., Ltd., Chengdu Huachuan Highway Construction Group Co., Ltd., Shenzhen Haichuan Industrial Co., Ltd., Zhengzhou Municipal Engineering Survey and Design Institute, Yunnan Transportation Planning and Design Institute, Xiamen Municipal Engineering Company, Fujian First Highway Engineering Company, Zhejiang Qinye Construction Engineering Group Co., Ltd., Nantong Bridge Engineering Co., Ltd., Hunan Luqiao Construction Group Limited Liability Company, Yantai Ludao Road Material Co., Ltd., Beijing Ding Innovation Building Materials Co., Ltd., Shanghai Pudong Road and Bridge Construction Co., Ltd.

Division, Anhui Transportation Planning and Design Research Institute Co., Ltd., Longjian Road and Bridge Co., Ltd., Xuzhou Highway Engineering Corporation, Hengyiji Group Co.,

Ltd., Huahui Engineering Design Group Co., Ltd., Tangshan Planning and Architectural Design Institute, Beijing Niwo New Materials Technology Co., Ltd.

Company, Chongqing Construction Engineering Third Construction Co., Ltd., China Communications Third Highway Engineering Bureau Co., Ltd., Fujian Yuansheng Construction Engineering Co., Ltd.

Changchun Municipal Engineering Design and Research Institute, Xinxiang Municipal Municipal Engineering Office, Fujian Hanghui Construction Engineering Co., Ltd., Fujian Zhongmu Construction Group Co., Ltd., China Construction Second Bureau Civil Engineering Co., Ltd., Fujian Jinquan Construction Group Co., Ltd., Anyang Municipal Engineering Office, Fujian Rongjian Group Co., Ltd., Fujian Taihong Construction Engineering Co., Ltd., Xinjiang Bazhou Construction Engineering Quality Inspection Center, Fujian Huifeng Construction Engineering Co., Ltd.

Division, Fujian Ruihuang Construction Engineering Co., Ltd., Fujian Juhuang Construction Engineering Co., Ltd., Fujian Mingtai Group Co., Ltd., China Construction Seven Engineering Bureau Co., Ltd., Luoyang Municipal Construction Group Co., Ltd., Xuchang Jinoute Asphalt Co., Ltd., Chongqing Building Science Research Institute, China Railway 16th Bureau Group Co., Ltd., Chongqing Construction Engineering No. 8 Construction Co., Ltd., China Construction Sixth Engineering Bureau Co., Ltd., Shenzhen Municipal Engineering Corporation.

1 Scope

This standard specifies the classification and scope of application, technical requirements, test methods, inspection rules, signs, transportation and Storage.

This standard is applicable to the improvement of asphalt and emulsification in urban roads and all grades of asphalt pavement plants during cold mixing and on-site cold regeneration.

An emulsion type regenerant which is blended with properties such as stability, permeability and aging resistance.

2 Normative references

The following documents are indispensable for the application of this document. 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.

JTGE20-2011 Highway Engineering Asphalt and Asphalt Mixture Test Procedure

3 Terms and definitions

The following terms and definitions apply to this document.

Recycled asphalt pavement material reclaimed asphalt pavement; RAP Old pavement materials obtained from asphalt pavement by means of milling, excavation, etc.

Regenerant Agent; RA an additive for restoring the properties of aged asphalt in recycled asphalt pavement materials (RAP).

Emulsion-type regenerant Emulsified Recycling Agent; ERA Regenerant emulsion suitable for cold mix cold storage or emulsified asphalt containing regenerant.

Plant mixed cold regeneration central plant cold recycling the recycled asphalt pavement material (RAP) is sent to the processing plant, crushed and sieved by special equipment, and the new aggregate and emulsification are separated in a certain proportion.

The green, emulsion type regenerant, water, etc. are mixed at room temperature to form a mixture of room temperature.

On-site cold regeneration in-situ cold recycling Using special equipment, the old asphalt pavement is milled at room temperature, and a certain amount of new aggregate, emulsified asphalt, emulsion regenerant, After the water, such as mixing, paving, rolling and other processes, the process of regenerating the old asphalt pavement within a certain depth of the road surface is realized at one time.

4.1 Classification

Emulsion-type regenerants (ERA) are classified into ERA-1, ERA-2, and ERA-3.