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

GB/T 25649-2010

**Road construction and maintenance machinery and equipment
- Slurry seal machines**

道路施工与养护机械设备 稀浆封层机

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Foreword

Appendix A of this standard is an informative annex. The standard proposed by China Machinery Industry Federation. This standard by the national construction machinery and construction equipment Standardization Technical Committee (SAC/TC328) centralized. This standard was drafted. XCMG Xuzhou Xugong Road Construction Machinery Co., Ltd. CCCC Xi'an Road Machinery, Chang'an University. The main drafters. Zhang Zhonghai, YUNG Man - sing, Caosan Qi, Xie Liyang, solution Caldecott, SONG. Road construction and maintenance machinery and equipment slurry seal machine

1 Scope

China's national standard for slurry seal machines. It specifies the terms and definitions, the types and basic parameters, the technical requirements, the test methods and the inspection rules for slurry seal and micro-surfacing machines. A slurry seal is a thin surface treatment rather than a pavement layer: a mixture of graded aggregate, bitumen emulsion, water, cement and additives is mixed on the machine and spread through a box a few millimetres thick over an existing road. It does not add structural strength, and that is not what it is for. It seals the surface against water, restores the skid resistance and the texture, fills minor cracks and ravelling, and adds ten years to a pavement that would otherwise deteriorate - at a fraction of the cost of an asphalt overlay and with the road reopened within an hour. Preventive maintenance of this kind is the cheapest thing a road authority can do, and the machine is what makes it possible. It is a continuous mixing plant on wheels: the aggregate, emulsion, water, cement and additive are metered from their own hoppers and tanks into a pugmill, mixed for a few seconds, and discharged straight into the spreader box, so the mixture is made and laid within seconds of each other. That is necessary because the emulsion breaks - the bitumen separates from the water - within minutes of contact with the aggregate and cement, and a mixture that breaks before it is spread is scrap. So the standard specifies the metering of each component and the

proportioning control between them, the mixer, the spreader box and the finish it produces, the calibration, and the output and travel speed relationship that determines the application rate. Issued on 1 December 2010 and in force since 1 March 2011.

This standard specifies the road construction and maintenance machinery and equipment slurry seal machine (hereinafter referred to as seal coat machine) terms and definitions, classifications, to Requirements, test methods, inspection rules, signs, instructions, packaging, transport and storage. This standard applies to self-propelled slurry seal machine.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB 1495 vehicle acceleration with the vehicle noise limits and measurement methods

GB 1589 road vehicles outside dimensions, axle load limits and quality

GB/T 3766 Hydraulic System General technical conditions (GB/T 3766-2001, eqv ISO 4413.1998)

GB 3847 from compression-ignition engines and compression-ignition engine vehicle exhaust smoke emission limits and measurement methods Flag

GB 4094 automotive controls, indicators and telltales Installation instructions

GB 4785 car and trailer exterior lighting and signaling devices

GB 7258 Safety requirements for operation of motor vehicles

GB/T 7932 pneumatic systems General technical conditions (GB/T 7932-2003, ISO 4414.1998, IDT)

GB/T 8499 moving machinery - Determination of the position of the center of gravity method (GB/T 8499-1987, idt ISO 5005. 1977)

GB/T 9969 General Instructions industrial products

GB 11564 vehicles retro-reflector

GB 11567.1 car and trailer side protection requirements

GB 11567.2 car and trailer rear underrun protection requirements Steep Test methods

GB/T 12539 cars climb