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SANS 4001-BT3:2014

Edition 1

SOUTH AFRICAN NATIONAL STANDARD

Civil engineering specifications

Part BT3: Anionic bitumen road emulsion

WARNING
This standard references other
documents normatively.

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Table of changes

| Change No. | Date | Scope |
|------------|------|-------|
| | | |

Acknowledgement

The SABS Standards Division wishes to acknowledge the valuable assistance derived from publications of the following organizations:

American Society for Testing and Materials (ASTM)

British Standards Institution (BSI)

International Organization for Standardization (ISO)

The SABS Standards Division also wishes to acknowledge the valuable assistance of the following organizations:

Committee of Transport Officials (COTO)

Southern African Bitumen Association (SABITA)

South African National Roads Agency Limited (SANRAL)

Foreword

This standard was approved by National Committee SABS/TC 081/SC 08, *Construction materials, products and test methods – Bitumen and bitumen products*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was published in March 2014.

This document supersedes SANS 309: 2004 (edition 3.3).

SANS 4001 consists of the various parts, under the general title *Civil engineering specifications*.

Parts BT of the SANS 4001 series contain specifications for bitumen and bitumen emulsions.

Annex A forms an integral part of this document. Annex B is for information only.

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Civil engineering specifications

Part-BT3:

Anionic bitumen road emulsion

1 Scope

This part of SANS 4001 covers the requirements for three types (each of 60 % binder content) of anionic bitumen road emulsions suitable for the preparation and treatment of road and other surfaces carrying wheeled and foot traffic.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies. Information on currently valid national and international standards can be obtained from the SABS Standards Division.

ASTM D140M, *Standard practice for sampling bituminous materials.*

ASTM D244, *Standard test methods and practices for emulsified asphalts.*

IP 15, *Petroleum products – Determination of pour point.*

IP 91, *Bitumen and bituminous binders – Determination of residue on sieving of bituminous emulsions, and determination of storage stability by sieving.*

SANS 4001-BT1, *Civil engineering specifications – Part BT1: Penetration grade bitumen.*

SANS 50197-1/EN 197-1, *Cement – Part 1: Composition, specifications and conformity criteria for common cements.*

3 Definitions

For the purposes of this document, the following definitions apply.

3.1

binder content

difference between 100 % and the percentage water content

NOTE Binder content includes the emulsifier(s) content.