47th Road Pavements Forum

29th November 2024



Manuals Update



Strategy issues prioritised

- Technology Development
- Stakeholder Engagement
- Health & Safety
- Training & Development
- Bituminous Industry Representation and Information Dissemination

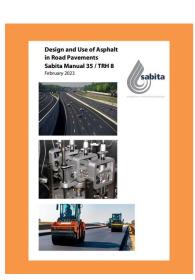


Manual 35/TRH8 (4th ED. FEB 2023) - Design and Use of Asphalt in Road Pavements

- Design target values of VMA
- ► The relationship between layer or lift thickness and NMPS
- ► Recommended minimum production volumes / plant run-time during plant mix trials are now included.

Post Feb 2023

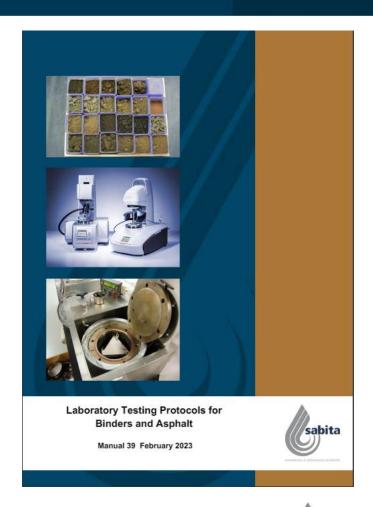
- ► Following on from CAPSA 23, the WG is setting out a new road map to transition from an approach that primarily targets volumetric parameters to one that would target performance characteristics.
- ► Targeting performance parameters; designing for functionality; QA Framework from lab mix to site mix; air permeability; workability and the layout of the manual.





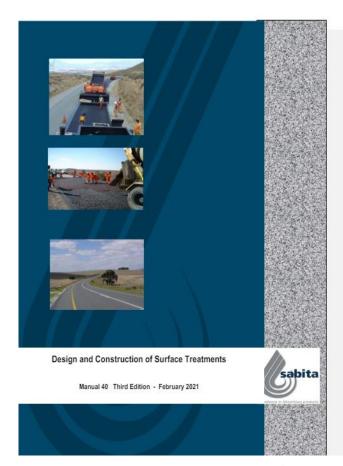
Manual 39 - FEB 2023 - Laboratory Testing Protocols for Binders and Asphalt

- Revision to ASP 8 (Determining the Bulk Density of Compacted Asphalt Mixtures)
- Inclusion of the newly compiled ASP 9 (Determining the Maximum Voidless Density of Asphalt Mixtures).



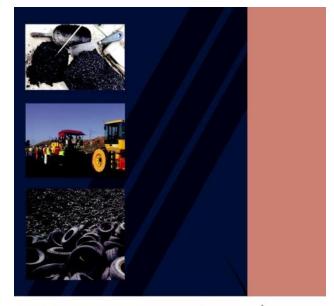


- ► Manual 40 Addendum Jan 2023 Design and Construction of Surface Treatments
 - Addendum in respect of this manual was sent out to all authorized representatives to address and clarify some of the issues in Manual 40.
 - Working document requiring review, additional opinions, and information from practitioners before we incorporate it into Manual 40.





- Manual 19 Guidelines for the Design, manufacture and Construction of Bitumen-Rubber asphalt wearing Courses SEP 2019
 - ► The SABITA TDFP approved the update of the SABITA Manual 19.
 - Further findings to be incorporated into the manual based on the outcomes of several research and trail section outputs.



Guidelines for the design, manufacture and construction of bitumen-rubber asphalt wearing courses

Manual 19

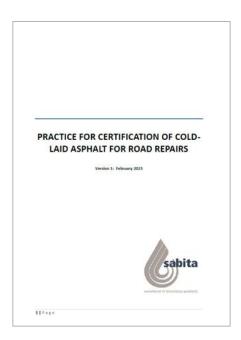
September 2019



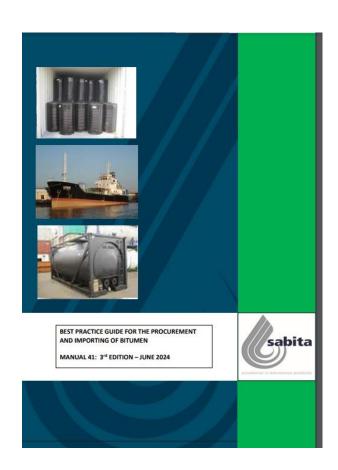


Certification of cold laid asphalt

- Code of practice for this process finalized.
- Certification process which Sabita has put in place with SATAS was presented to RTMC officials.
- ► There was general support and the RTMC welcomed the efforts by SABITA to bring more risk management measures in the space of cold (mixed/laid) asphalt.
- ► Introduced the process at the Road Maintenance Forum on the 22nd of November 2023.







- 2022 concerns regarding HSE activities needing to be considered by bitumen importers.
- Related to offloading of bitumen during import operations
- Provide more comprehensive guidance on critical HSE activities associated with the importing of bitumen.





A Health and Safety Guide for Material Testing Laboratories in the Road Construction Industry Manual 38 November 2024



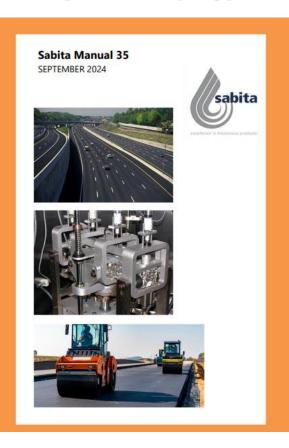
Laboratory operators highlighted concerns with regards to health and safety issues in connection with distillation of Toluene.

Revision of this guideline detailed discussion and recommendations for establishing and managing the hazards and effects associated with the distillation of Toluene.



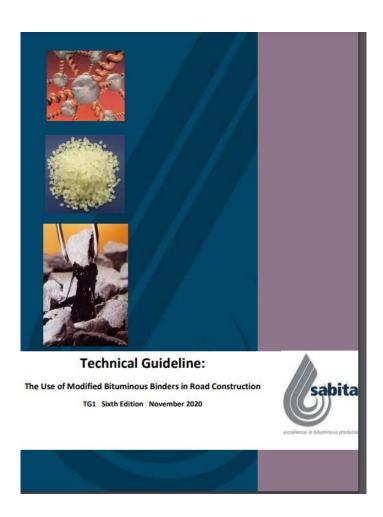
Design and Use of Asphalt in Road Pavements

SABITA MANUAL 35



- Design of dense asphalt, with fine or coarse continuous gradings and produced with conventional or modified bitumen, where such modification agents result in a homogenous binder
- Design of special mixes should be carried out in accordance with the relevant Sabita manuals or, where the design of a mix type is not covered by the scope of a Sabita manual, by reference to best practice documents.
- Chapter on quality management procedures has been removed for incorporation into Sabita Manual 5 Guidelines for the Manufacture and Construction of Asphalt

excellence in bituminous products



WG hard at work under the Chair of Herman Marais and most of the sections of the manual are being updated.

New sections incorporated including:

- In Mix Modification
- Recycled Plastic Modification
- Understanding influence of bitumen Chemistry.



Technology Development – 2025??

Guidelines for the manufacture and construction of hot mix asphalt which is a specific to the manufacture and construction of hot mix asphalt which is a specific to the manufacture and construction of hot mix asphalt manual 5 January 2008 4th edition

WG for updating manual 5 – Chair Greg Reynolds

- Section 7 of manual 35 section would revert to Sabita Manual 5.
- Sound construction and QA procedures to be incorporated in this document.



Technology Development – 2025??



TECHNICAL GUIDELINE:

THE INTRODUCTION OF A PERFORMANCE GRADE SPECIFICATION FOR BITUMINOUS BINDERS

> Version 2 February 2017



WG for development of new manual – SMA

Guideline document on the interpretation and application of SATS 3208 to be updated to align with the outcomes of the workshop in October



Manual Availability?????





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the information of the publications. The above exclusions apply irrespective of any references in any COTO document to any of Sabita's manuals.

Manual 1: Construction of bitumen rubber seals

Manual 2 (PG): Bituminous Products for road construction and maintenance, download Download for Manual 2

Manual 5: Guidelines for the Manufacture and Construction

of Asphalt - Download for Manual 5

Manual 7: SuperSurf – Economic warrants for surfacing

roads

Manual 8: Guidelines for the safe and responsible handling

of bituminous products - Download for Manual 8

Manual 10: Bituminous surfacings for low volume

roads and temporary deviations - Download for Manual 10

Manual 11: Labour enhanced construction for bituminous

surfacings (this manual has been withdrawn and part of the contents thereof has been incorporated into Manual 12)

Manual 12: Labour Absorptive Methods in Road Construction using Bituminous Materials – Download for Manual 12

Manual 13: LAMBS – the design and use of large aggregate

mixes for bases

