



**ROAD PAVEMENTS
FORUM**

TG 1 revision



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Background to the Guideline

- First edition published in 2001 aimed at classification of modified binders in generic classes.
- Use of modified binders increased with new modifiers being introduced such as rejuvenators and warm-mix technologies (A-R2).



Background to the Guideline

- Road Pavement Forum in 2005 reconstituted a task group to review the document which culminated in revised publications in 2007 and 2015.
- Implementation of Performance Grade specification (SATS 3208) warranted an introduction to parameters in TG1 revision November 2020



Scope of review

Chapter 1 Introduction

Chapter 2 Occupational HSE

Chapter 3 Composition and Characteristics

3.1 Composition of modifiers (Hom. Non-Hom, hydrocarbons, waxes etc)

3.2 Behavioral Characteristics

3.3 Use of cutters



Scope of review

Chapter 1 Introduction

Chapter 2 Occupational HSE

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3.1 Composition of modifiers (Hom. Non-Hom, hydrocarbons, waxes etc)

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Scope of review

Chapter 4 Manufacture

4.1 General

4.2 Homogenous binders (SBS, SBR, RET, EVA Hydrocarbons and Waxes)

4.3 Non-homogenous binders (wet and dry)

4.4 General items (combining agents, pre-blending, mixing, high shear mixers etc)



Scope of review

Chapter 5 Modified binder classification

Chapter 6 Product requirements

Chapter 7 Selection criteria

7.1 Spray seal applications

7.2 Asphalt

Chapter 8 Construction



Scope of review

Chapter 9 Quality assurance during storage and handling

9.1 Heating of modified binders

9.2 Contamination

9.3 Quality assurance

9.4 Site quality control plan



Scope of review

Chapter 10 Sampling and testing

Chapter 11 Protocol for introducing a new modified binder product

Appendix 1 – Test methods



Sections needing expansion

Chapter 1 Introduction

Chapter 2 Occupational HSE

Chapter 3 Composition and Characteristics

3.1 Composition of modifiers (hom. non-hom, hydrocarbons, waxes etc)

3.2 Behavioral characteristics

3.3 Use of cutters

3.4 Use of adhesion promoters

3.4 Use of organo silanes



Sections needing expansion



Chapter 4 Manufacture

4.1 General

4.2 Homogenous binders (SBS, SBR, RET, EVA hydrocarbons and waxes)

4.3 Non-homogenous binders (wet and dry)

To be included in new section of In Mix Modification- Possibly new stand-alone document

4.4 General items (combining agents, pre-blending, mixing, high shear mixers etc)

Chapter 5 Modified binder classification (align with PG System)

Chapter 6 Product requirements (align with PG System)

Sections needing expansion



Chapter 7 Selection criteria

7.1 Spray seal applications

7.2 Asphalt

Chapter 8 Construction

Chapter 9 Quality assurance during storage and handling

9.1 Heating of modified binders

9.2 Contamination

9.3 Quality assurance

9.4 Site quality control plan

Sections needing expansion



Chapter 10 Sampling and Testing

Chapter 11 Protocol for Introducing a New Modified Binder Product

Appendix 1: Test methods (Align with PG System)

Sections needing expansion

- In mix modification
- Recycled plastic modification
- Understanding influence of bitumen chemistry in bitumen and modification
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“It’s hard work and it needs the whole industry to participate.” – Bennie Greyling (Much Asphalt)

“I don’t know.” – Fanie Loubser (COLAS)

“We are all part of the same ecosystem... We are all in it together. We need to collaborate. We need to coordinate.” Zain Babamia (SANRAL)