



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 therember 2020













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

















Chapter 1 Introduction

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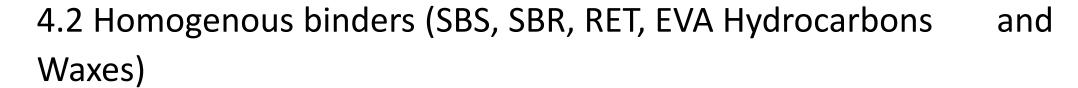






Chapter 4 Manufacture

4.1 General



- 4.3 Non-homogenous binders (wet and dry)
- 4.4 General items (combining agents, pre-blending, mixing, high shear mixers etc)

















Chapter 5 Modified binder classification

Chapter 6 Product requirements

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

















Chapter 10 Sampling and testing

Chapter 11 Protocol for introducing a new modified binder product

Appendix 1 – Test methods

















Chapter 1 Introduction

Chapter 2 Occupational HSE

Chapter 3 Composition and Characteristics

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

- 3.2 Behavioral characteristics
- 3.3 Use of cutters
- 3.4 Use of adhesion promoters
- 3.4 Use of organo silanes



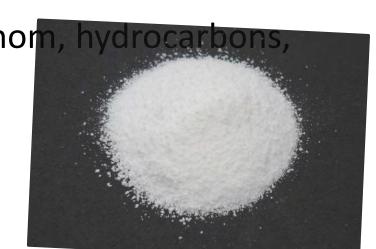
















Chapter 4 Manufacture

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 standalone 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)

















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

















Chapter 10 Sampling and Testing

Chapter 11 Protocol for Introducing a New Modified Binder Product

Appendix 1: Test methods (Align with PG System)

















- 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)











