
Bitumen in bitumenska veziva - Okvir dodatnih specifikacij glede na zmogljivost

Bitumens and bituminous binders - Complementary Performance-related Specification Framework

Bitumen und bitumenhaltige Bindemittel - Ergänzende Produktspezifikationen - Bitumenhaltige Bindemittel für den Straßenbau

Bitumes et liants bitumineux - Cadre de spécifications complémentaires relatives aux performances

Ta slovenski standard je istoveten z: prEN 18389

ICS:

75.140	Voski, bitumni in drugi naftni proizvodi	Waxes, bituminous materials and other petroleum products
93.080.20	Materiali za gradnjo cest	Road construction materials

oSIST prEN 18389:2026**en,fr,de**

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Produktspezifikationen - Bitumenhaltige Bindemittel
für den Straßenbau

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European foreword

This document (prEN 18389:2026) has been prepared by Technical Committee CEN/TC 336 “Bitumens and bituminous binders”, the secretariat of which is held by AFNOR.

This document is submitted to the CEN Enquiry.

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Introduction

This document defines performance-related properties to better define the performance of bitumens and bituminous binders in construction works, for example asphalt paving.

This document is designed to be complementary to other CEN/TC 336 product standards for bitumens and bituminous binders, some of which are harmonized within the European construction product regulation and cited in the Official Journal of the European Union. It aims to provide additional product performance characteristics by addressing performance-related properties and critical ageing states and does not overlap with other product standards for bitumens and bituminous binders. It is the outcome of works carried out by CEN/TC 336/WG 1 on bitumens and bituminous binders future specifications.

At the time of publication of this document, adhesion performance is not addressed in CEN/TC 336 product standards, as this is determined by tests on the asphalt mix. However, this document does address handling temperatures which are important in the production of notably asphalt mixtures.

This document is part of a family of CEN/TC 336 product standards for bitumens and bituminous binders for paving applications, as shown in Figure 1, but can also apply to other uses.

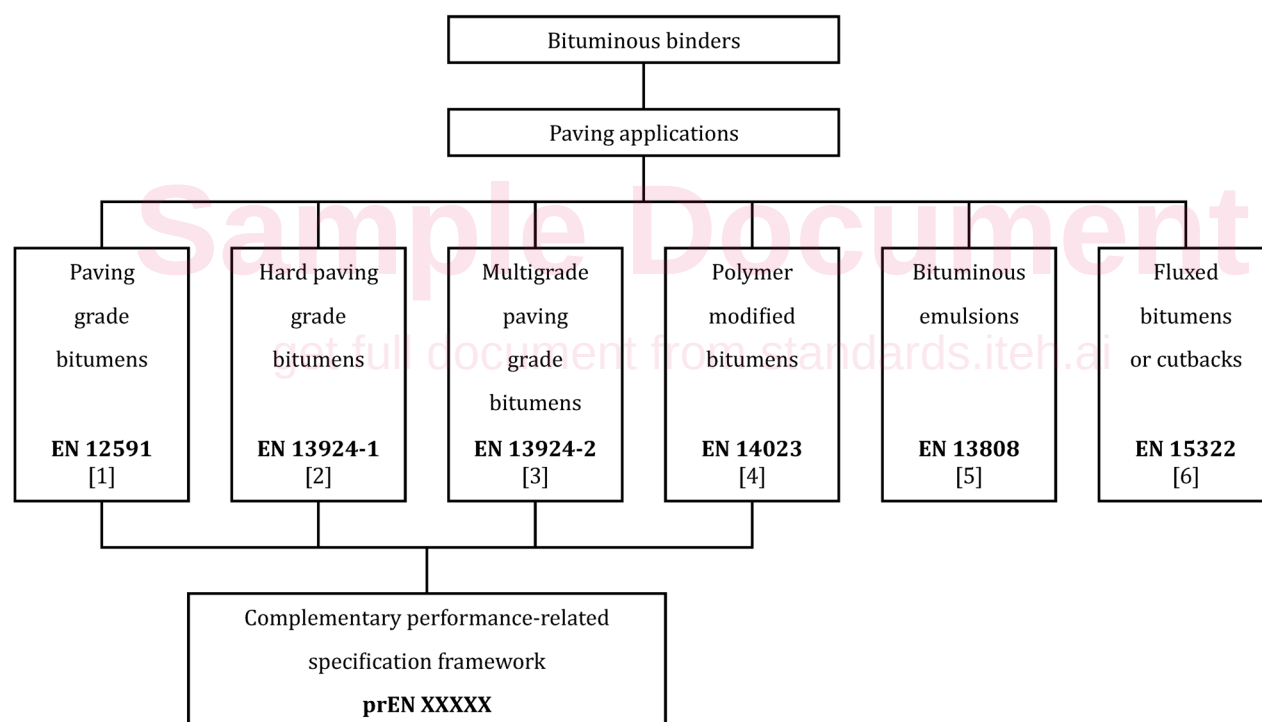


Figure 1 — Mapping of European product standards for bitumens and bituminous binders for paving applications

1 Scope

This document specifies a framework of additional characteristics and associated test methods for bitumens and bituminous binders, which is complementary to other product standards for bitumens and bituminous binders. This document is applicable to bitumens and bituminous binders suitable for use in paving applications, but it is also applicable for other uses such as waterproofing membranes.

With regard to paving applications, the following characteristics are addressed:

- resistance to permanent deformation (rutting);
- resistance to low-temperature cracking;
- resistance to ravelling;
- resistance to fatigue cracking;
- temperature susceptibility;
- equi-stiffness temperature and phase angle;
- durability (evolution of equi-stiffness temperature and phase angle);
- mixing and handling characteristics (paving and compaction) temperatures;
- additional characteristics (e.g. solubility, elastic recovery and storage stability).

Not all the properties and characteristics established in the framework are universally relevant to all binders. For example, elastic recovery is not relevant for unmodified binders.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 58, *Bitumens and bituminous binders — Sampling of bituminous binders*

EN 1426, *Bitumens and bituminous binders — Determination of needle penetration*

EN 1427, *Bitumens and bituminous binders — Determination of the softening point — Ring and Ball method*

EN 12592, *Bitumen and bituminous binders — Determination of solubility*

EN 12594, *Bitumens and bituminous binders — Preparation of test samples*

EN 12597, *Bitumens and bituminous binders — Terminology*

EN 12607-1, *Bitumens and bituminous binders — Determination of the resistance to hardening under the influence of heat and air — Part 1: RTFOT method*

EN 12607-2, *Bitumen and bituminous binders — Determination of the resistance to hardening under the influence of heat and air — Part 2: TFOT method*