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**Road construction and maintenance  
equipment — Bituminous binder  
spreaders/sprayers — Terminology and  
commercial specifications**

*Équipement pour la construction et l'entretien des routes —  
Épandeuces/pulvérisatrices de liants bitumineux — Terminologie et  
spécifications commerciales*



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# Contents

Page

Foreword.....	iv
1 Scope .....	1
2 Terms and definitions .....	1
3 Description of spreader components.....	3
3.1 Transport vehicle.....	3
3.2 Tank.....	3
3.3 Binder transfer device.....	3
3.4 Spray bar .....	3
3.5 Control station .....	3
4 Commercial specifications .....	4
4.1 Spreader components list.....	4
4.2 Vehicle characteristics.....	4
4.3 Tank: performance and characteristics .....	5
4.4 Burner .....	7
4.5 Binder transfer unit: bitumen pumping and transmission characteristics .....	8
4.6 Spray bar: performance and characteristics .....	9
4.7 Control station performance .....	13
Bibliography.....	14

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 15643 was prepared by Technical Committee ISO/TC 195, *Building construction machinery and equipment*.

# Road construction and maintenance equipment — Bituminous binder spreaders/sprayers — Terminology and commercial specifications

## 1 Scope

This International Standard establishes the terminology for soil stabilizers used in road construction and pavement works. It provides the terminology for the machine and its components, also the definitions of operation principles and parameters.

This International Standard also establishes the parameters required for the technical characteristics of the whole machine and its components, such as the transport vehicle and mixing device, for commercial specifications.

## 2 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

### 2.1

#### **bituminous binder spreader**

machine used to apply a film of binder on a pavement at a predetermined application rate

NOTE The particular spreader types may be defined by associating the operating principle, the shape of the components, the type of binder, and by specifying the spreading performances.

### 2.2

#### **displacement pump spreader**

machine in which binder transfer from the storage tank to the spray bar is provided by a pump

NOTE The pump's output is proportional to its rotating speed which may be controlled by the vehicle movement speed.

### 2.3

#### **constant pressure spreader**

machine in which binder transfer from the storage tank to the spray bar is provided by pressurizing the binder

NOTE The binder may be pressurized directly by compressed air above the binder, or by a pump and regulating valve maintaining a constant binder pressure in the spray bar feeder circuit.

### 2.4

#### **fixed assembly spreader**

machine in which the tank and its attachments are fixed to the transport vehicle

### 2.5

#### **removable assembly spreader**

machine in which the tank and its attachments are fixed to a removable chassis

### 2.6

#### **heat-insulated spreader**

machine in which the tank is equipped with thermal insulation to avoid heat loss