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Second edition  
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## **Paints and varnishes — Determination of the scratch resistance of a coating system using a laboratory-scale car-wash**

*Peintures et vernis — Détermination de la résistance à la rayure d'un système de peinture sur un poste de lavage automobile de laboratoire*



Reference number  
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## 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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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 20566 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

This second edition cancels and replaces the first edition (ISO 20566:2005), which has been technically revised. The main changes are:

- a) a "terms and definitions" clause has been added, defining the terms mar, scratch, double pass, test area and reflow effect;
- b) tolerances have been added to all key numerical values, such as dimensions;
- c) the spread of the spray jet has been changed from 60° to 65°;
- d) the thickness of the test panels has been specified;
- e) the test procedure has been described in more detail;
- f) a visual examination of the test panels has been added.

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## **Introduction**

With this test procedure, it is important to note that the test results will not, over time, remain constant, as a result of changes to the brush material. As the brush ages, the test will become more severe. As a result, the test procedure is suitable only for comparative tests carried out at any one time and using relatively short runs. Readings obtained using equipment which has accumulated different total numbers of operating hours are not comparable with each other.