Australian Standard™

AS 3894.5

Site testing of protective coatings

Method 5: Determination of surface profile

PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee CH-003, Paints and Related Materials, to supersede AS/NZS 3894.5:1995. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

FOREWORD

A record of the range of the surface profile present on a prepared metal surface, to which a protective coating will be applied, will assist in controlling the quality of the coating operation. Coating manufacturers normally specify a range of surface profile readings required to achieve the desired performance for the coating.

As the average surface profile, when numerically expressed, will vary from spot to spot on the prepared surface of a structure or structural unit, it may be necessary to record the range and the mean of surface profile readings.

A round robin was performed on test panels that had been prepared by abrasive blasting with ilmenite, garnet, zinc slag, copper slag, chilled grit and steel shot using the test methods described in this Standard. Although the tests gave consistent results for a particular method, it was demonstrated that a direct comparison of results obtained using alternative methods was not appropriate.

METHOD

1 SCOPE

This Standard provides practical procedures for use in the field, to evaluate the surface profile of a prepared metal substrate to which a protective coating is to be applied.

This Method is applicable to surfaces that have been prepared by abrasive blast cleaning in accordance with AS 1627.4.

Four methods are described for assessing surface profile.

NOTES:

1 Results obtained using different methods are not necessarily comparable.

2 Surface profile does not play any part in surface cleanliness.