

Indian Standard

SPECIFICATION FOR ETCH (PRETREATMENT) PRIMER

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 30 April 1970, after the draft finalized by the Paints and Allied Products Sectional Committee had been approved by the Chemical Division Council.

0.2 The etch primers have come to play an important part in the finishing of metallic surfaces other than steel and with advantage be used in refinishing work on steel surfaces too. The use of these primers combine a light phosphate treatment with a very thin primer application.

0.2.1 The etch primers are based on the use of an activated phosphoric acid solution in conjunction with vinyl butyral resin, pigmented with zinc tetroxy chromate.

0.2.2 As the etch primer gives a very thin coating, it shall be supplemented by a coat of ordinary priming material if full weather resistance is required. The etch primer is water sensitive, and, therefore, it is essential that the work should flow steadily from priming to finishing without delay. The etch primers are also known as wash primers or pretreatment primers. This primer is generally used in aeronautical and shipbuilding industry for the preparation of surface for painting.

1. SCOPE

1.1 This standard prescribes the requirements and the methods of sampling and test for etch (pretreatment) primer, suitable for air drying, or force drying, for use on clean metal surfaces of all types as a treatment prior to application of the coating system.

1.1.1 The material is intended to improve adhesion of the next applied coat of paint. Though it possesses corrosion inhibiting properties, it is not intended as a permanent protective coating by itself.

NOTE—The material is supplied as two separate components consisting of the base and accelerator to be mixed together before use in the proportions specified. The mixed material should retain its properties for a period of 8 hours from the time of mixing, and any unused material should be discarded at the end of this period.

*Rules for rounding off numerical values (revised).