

(PREVIEW)

Indian Standard
RECOMMENDED
PRACTICE FOR SHOTCRETING

FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 30 November 1978, after the draft finalized by the Cement and Concrete Sectional Committee had been approved by the Civil Engineering Division Council.

0.2 Shotcrete is mortar or concrete conveyed through a hose and pneumatically projected at high velocity on to a surface. The force of the jet impinging on the surface compacts the material. Generally a relatively dry mixture is used, and so the material is capable of supporting itself without sagging or sloughing, even for vertical and overhead applications.

0.3 Shotcrete has been referred to generally as gunite, pneumatically applied mortar or concrete, sprayed concrete, spraycrete, air-blown mortar and concrete, gunned concrete, etc. In this standard the term shotcrete will be adhered to right through as it is internationally accepted and conveys the intended meaning implicitly.

0.4 Shotcrete is suitable for a variety of new construction and repair work, but its properties and performance are to a great extent dependent on the conditions under which it is placed, the capability of the particular equipment selected, and in particular on the competence of the operating staff. Shotcreting work can be either plain or reinforced.

0.5 This standard covers the recommended practice for general shotcrete using two shotcreting processes, namely dry-mix process and wet-mix process. The practices recommended in this standard generally reflect the standards and practices prevailing in different countries and also the practices in the field in this country.

0.6 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard covers the recommended practice for two shotcreting processes, namely, dry mix process and wet mix process

*Rules for rounding off numerical values (*revised*)