

(PREVIEW)

*Indian Standard***CONCRETE ADMIXTURES — SPECIFICATION****1 SCOPE**

1.1 This standard covers the chemical and air-entraining admixtures including superplasticizers, solid or liquid or emulsion, to be added to cement concrete at the time of mixing so as to achieve the desired property in concrete, in the plastic or hardened state.

1.2 The different types of admixtures covered in this standard are as follows:

1.3 The chloride content in the admixture shall be declared by the manufacturer. Superplasticizers are expected to be chloride free.

1.3.1 Admixtures that contain relatively large amounts of chloride may accelerate corrosion of prestressing steel. Where corrosion of such steel is of major concern, compliance with the requirement of this specification does not constitute assurance of acceptability of the admixture for use in prestressed concrete. In case of reinforced concrete, to minimize the chances of deterioration of concrete, the total chloride content in the concrete should be limited as specified in IS 456.

2 NORMATIVE REFERENCES

The Indian Standards listed in Annex A contain provisions which, through reference in this text, constitute provision of this standard. At the time of publication the editions indicated were valid. All standards are subject to revision, and parties to agreement based on this standard are encouraged to investigate the possibility of applying the most recent edition of the standards indicated in Annex A.

ANNEX A

(Clause 2)

LIST OF REFERRED INDIAN STANDARDS

<i>IS No.</i>	<i>Title</i>
269 : 1989	Specification for 33 grade ordinary Portland cement (<i>fourth revision</i>)
383 : 1970	Specification for coarse and fine aggregates from natural sources for concrete (<i>second revision</i>)
456 : 1978	Code of practice for plain and reinforced concrete (<i>third revision</i>)
516 : 1959	Method of test for strength of concrete
1199 : 1959	Methods of sampling and analysis of concrete

<i>IS No.</i>	<i>Title</i>
2386 (Part 3) : 1963	Methods of test of aggregates for concrete : Part 3 Specific gravity, density, voids, absorption and bulking
3535 : 1966	Methods of sampling hydraulic cement (<i>first revision</i>)
6925 : 1973	Methods of test for determination of water soluble chlorides in concrete admixtures
8112 : 1989	Specification for 43 grade ordinary Portland cement (<i>first revision</i>)
8142 : 1976	Methods of test for determining setting time of concrete penetration resistance
12269 : 1987	Specification for 53 grade ordinary Portland cement