



National Standards Authority of Ireland

IRISH STANDARD

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I.S. 27:1950

ICS 91.100.10

GYPSUM PLASTERS

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Údarás um Chaighdeáin Náisiúnta na hÉireann

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STATUTORY INSTRUMENTS.

S. I. No. 240 of 1950.

Standard Specification (Gypsum Plasters) Order, 1950.

IRISH STANDARD 27 : 1950.

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STANDARD SPECIFICATION (GYPSUM PLASTERS) ORDER, 1950.

I, DANIEL MORRISSEY, Minister for Industry and Commerce, in exercise of the power conferred on me by subsection (3) of section 20 of the Industrial Research and Standards Act, 1946 (No. 25 of 1946), hereby order as follows :

1. This Order may be cited as the Standard Specification (Gypsum Plasters) Order, 1950.

2.—(1) The specification set forth in Part II of the Schedule to this Order is hereby declared to be the standard specification for the commodity described in Part I of the said Schedule.

(2) The said standard specification may be cited as Irish Standard 27 : 1950.

SCHEDULE.

PART I.

GYPSUM PLASTERS.

PART II.

SPECIFICATION.

SCOPE.

1. This specification applies to gypsum plasters, suitable for use in building operations and in the manufacture of building materials, which set due to the hydration of calcium sulphate.

DEFINITIONS.

2. For the purpose of this specification the following definitions shall apply :—

(a) *Hemihydrate.* The term hemihydrate shall mean an intermediate phase in the dehydration of gypsum, $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$, wherein the amount of combined water corresponds approximately to the formula $2\text{CaSO}_4 \cdot \text{H}_2\text{O}$, calcium sulphate hemihydrate.

(b) *Test sieve* of any particular designation shall mean the test sieve of that designation as prescribed by Irish Standard 24 : 1950.

CLASSES.

3. Gypsum plaster shall be one of the three classes : Common Plaster of Paris, Superfine Plaster of Paris, and Hardwall Plaster, designated respectively as,

Common Gypsum Plaster,
Superfine Gypsum Plaster, and
Retarded Gypsum Plaster.

CHEMICAL COMPOSITION.

4. Gypsum plaster shall consist mainly of hemihydrate of calcium sulphate, but may also contain added materials to improve the working characteristics or to impart anti-corrosion properties.

Materials for the purpose of retarding the set shall not be added to common gypsum plaster and superfine gypsum plaster.

Added materials and materials arising from impurities in the original gypsum shall not be of a type having a deleterious effect on the set plaster or on other building materials in contact with it or adjacent to it when in use.

The content of sulphuric anhydride expressed as a percentage by weight of the plaster, when determined by the method described in Appendix A, shall be,

for common gypsum plaster not less than 35 per cent.,
for superfine gypsum plaster not less than 40 per cent., and
for retarded gypsum plaster not less than 35 per cent.

The content of calcium oxide when determined by the method described in Appendix A shall be not less than two-thirds of the content of sulphuric anhydride by weight.

The content of soluble sodium salts expressed as sodium oxide, Na_2O , when determined as described in Appendix B, shall be not greater than 0.1 per cent. by weight of the plaster.

The content of soluble magnesium salts expressed as magnesium oxide, MgO , when determined as described in Appendix B, shall be not greater than 0.1 per cent. by weight of the plaster.

LOSS OF WEIGHT ON IGNITION.

5. The loss of weight on ignition, when determined by the method described in Appendix C, shall be not greater than 9 per cent., and not less than 4 per cent. by weight of the plaster.

CONTENT OF COARSE PARTICLES.

6. The content of coarse particles expressed as a percentage by weight, when determined in the manner described in Appendix D, shall not exceed the values set out for each class in Table 1.

TABLE 1.

Class	Retained on No. 14 test sieve per cent.	Retained on No. 100 test sieve per cent.
Common gypsum plaster	5	—
Superfine gypsum plaster	1	20
Retarded gypsum plaster	1	25

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