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National Standards Authority of Ireland

IRISH STANDARD

I.S. 27 : Part 2 : 1975

ICS 91.100.10

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GYPSUM PLASTERS (PREMIXED LIGHTWEIGHT PLASTERS)

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DECLARATION

OF

SPECIFICATION

ENTITLED

GYPSUM PLASTERS
(PREMIXED LIGHTWEIGHT PLASTERS)

AS

THE IRISH STANDARD SPECIFICATION FOR

GYPSUM PLASTERS
(PREMIXED LIGHTWEIGHT PLASTERS)

The Institute for Industrial Research and Standards in exercise of the power conferred by section 20 of the Industrial Research and Standards Act, 1961 (No. 20 of 1961), and with the consent of the Minister for Industry and Commerce, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Gypsum Plasters (Premixed Lightweight Plasters)) Declaration, 1975.

2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Gypsum Plasters (Premixed Lightweight Plasters).

(2) The said standard specification may be cited as Irish Standard 27: Part 2: 1975 or as I.S. 27: Part 2: 1975.

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SCHEDULE

Gypsum Plasters (Premixed Lightweight Plasters)

1. General

1.1 **Scope.** Part Two of this specification applies to premixed lightweight plaster consisting essentially of gypsum plaster and lightweight aggregate used in general building operations.

1.2 **Definition.** For the purposes of Part Two of this specification the following definition applies:

Lightweight Plaster. A plaster consisting of suitable lightweight aggregates and retarded hemihydrate gypsum plasters complying with I.S. 27: Part 1, Class B. Additives may be incorporated to impart desired properties, provided such additives have no deleterious effects.

1.3 **Types.** Premixed lightweight plaster may be divided into the following types:

Type a:
Undercoat plasters
1. Browning plaster
2. Metal lathing plaster
3. Bonding plaster

Type b:
Final coat plasters
1. Finish plaster

1.4 **Sampling.** Each sample shall have a mass of not less than 10 kg and shall be enclosed immediately in a clean, dry, airtight container. The process of sampling shall be carried out in as short a time as possible.

Sufficient material shall be taken in approximately equal portions selected from at least twelve different positions when the plaster is loose, or from not less than twelve different packages when the plaster is not loose, or, where there are fewer than twelve different packages, then from each package. The portions shall be thoroughly mixed and shall be quartered down to give a sample of the weight required for testing.

Every care shall be taken in the selection so that a fair average sample is obtained.

The vendor shall afford every facility for the efficient sampling of the bulk and for subsequently identifying the plaster sampled.

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1.5 **Testing.** At the purchaser's request the supplier shall provide a certificate, or statistical quality control certificates, stating that the product complies with the requirements of this specification. In cases where independent tests are required, they shall be carried out in accordance with this specification on the written instructions of the purchaser. The cost of such independent tests, unless otherwise stipulated, shall be borne as follows:

(1) By the vendor if the results indicate that the material does not comply with the specification.

(2) By the purchaser if the results indicate that the material complies with the specification.

Test records or certificates shall include full information to enable identification of the plasters under examination and include the date of sampling and the dates when the test procedures were carried out. Test sieves specified in this specification shall comply with the requirements of Irish Standard 24: 1973 'Test Sieves'.

2. Quality of the Different Types

2.1 Compliance with tests

2.1.1 Type a. 1. Browning plaster.

2.1.1.1 *Soluble salt content.* The sum of the soluble sodium salt and magnesium salt contents, expressed as percentages of sodium oxide (Na_2O), and magnesium oxide (MgO), by weight of the plaster as received, shall be not greater than 0·25 when determined by the method described in Appendix A.

2.1.1.2 *Dry bulk density.* The bulk density of the plaster shall not exceed 640 kg/m^3 when determined by the method described in Appendix B.

2.1.1.3 *Dry set density.* The density of the dry set plaster shall not exceed 850 kg/m^3 when determined by the method described in Appendix C.

2.1.1.4 *Compressive strength.* The compressive strength of the set plaster shall not be less than 0·93 N/mm^2 when determined by the method described in Appendix C.

2.1.2 Type a. 2. Metal lathing plaster.

2.1.2.1 *Soluble salt content.* The sum of the soluble sodium salt and magnesium salt contents, expressed as percentages of sodium oxide (Na_2O), and magnesium oxide (MgO), by weight of the plaster as received

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