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English version

**Design, preparation and application of internal gypsum
plastering systems**

Planung, Zubereitung und Ausführung von
Gipsinnenputzsystemen

This Technical Report was approved by CEN on 13 May 2005. It has been drawn up by the Technical Committee CEN/TC 125.

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Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (CEN/TR 15124:2005) has been prepared by Technical Committee CEN/TC 125 "Masonry", the secretariat of which is held by BSI.

The initial draft of this document was prepared by the European section of International Union of Contractors of Plastering, Dry Lining, Stucco and Related Activities (UIEP) at the request of the CEN Technical Sector Board (Resolution No.BTS1/56/1991). It has been revised by CEN/TC125/JWG5 in conjunction with CEN/TC241 using a document prepared by Eurogypsum. The CEN technical report gives in different sections guidance for building details, design and materials considerations, the selection of mixes and the application of gypsum plasters. Relevant data are summarized in a series of tables. This document applies to gypsum plasters conforming to prEN 13279-1, applied as an internal plaster. The recommendations are framed in logical sequence, namely materials and accessories; properties of backgrounds that influence the choice of suitable gypsum plastering systems; guidance on preparation of surfaces to be plastered; choice of suitable gypsum plastering systems; methods of application. It is essential that the design clauses are read in conjunction with the clauses on background and preparation.

It is not the function of this document to assign responsibility for the design and application of any work or actions mentioned within to any specific party. Such responsibility is a matter for other documentation associated with the work, e.g. the contract.

It has been assumed in the drafting of this document that the application of its provisions is entrusted to appropriately qualified and experienced people, for whose guidance it has been prepared.

This TR should be read in conjunction with EN 13914-2.

The following similar Technical Reports are also available:-

CEN/TR 15123:2005 *Design, preparation and application of internal polymer plastering systems*

CEN/TR 15125:2005 *Design, preparation and application of internal cement and/or lime plastering systems.*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Report: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This document concerns the design, preparation and application of plaster based on gypsum, for internal plastering on all types of background used under normal conditions. It includes plastering onto both new and old backgrounds and the maintenance and repair of existing work. It concerns materials, backgrounds, preparation of the surface to be plastered, choice of suitable gypsum plastering system, methods of application and inspection and testing of plastering.

Gypsum plastering mixes with special properties intended to enhance thermal insulation, fire resistance, acoustic insulation and to increase radiation absorption are also covered.

Because of the many and varied materials and practices in Europe it is not possible for certain aspects of the standard to enter into sufficient detail to be fully usable to practitioners in each country.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

gypsum building plaster

plaster consisting of at least 50 % gypsum binder as the principle active binding component. Additives and aggregates may be added by the manufacturer

2.2

gypsum plaster coat

obtained by application of one or more layers with one or more mixes of the same product

2.3

gypsum plaster layers

gypsum plaster applied wet on wet to obtain the final thickness with one or more mixes of the same product, when all operations are completed before the gypsum plaster has set

2.4

gypsum plaster multi-coat

plaster system using a sequence of plaster coats to achieve the required thickness when all operations are completed after the gypsum plaster has set but not dry. A mechanical key is required between each coat

2.5

gypsum plastering system

gypsum plaster coat or sequence of gypsum plaster coats to be applied to a background, including the possible use of a support and/or reinforcement and/or pre-treatment

2.6

one coat gypsum plaster

gypsum plaster applied in one coat which fulfils all the functions of an undercoat and a final coat

2.7

gypsum multi-coat plastering system

gypsum plaster coat or sequences of gypsum plaster coats (see 2.8 and 2.9)

2.8

gypsum undercoat

lower plaster coat(s) of a plastering system which needs a final coat