



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Mr. Michel Ayrat
Director
European Commission
DG ENTR and Industry C
BREY 45, 8/120
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Ref. CORR/M116/ADC

Subject: Mandate M/116-amendment to answer

2006-06-14

Dear Mr. Ayrat,

Please find herewith, for your acceptance, an amendment to the answer of CEN/TC 125 "Masonry" to the mandate M/116 on masonry.

You will also find in annex the comments of Mr. Joël Cuhe, the CEN Consultant responsible for the mandated work under M/116.

Yours sincerely

Stephen Russell
Director, Standards

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Wezembeek, the 30th May 2006

CEN
Attention Mr Da Costa

Subject: CEN /TC125 revised answer to the mandate M116

Dear Amilcar

I have carefully examined the revised answer to the mandate M 116 drafted by TC125 under their document CEN/TC125 N823 dated 14th March 2005 and I have only one minor comment.

For the symbol (h) which, at my understanding, is a copy/paste of the symbol used in the Mandate M116, I would suggest adding a Note in the clause (iv) saying that "the characteristics of the product covered by the standard will be the characteristics AFTER SET AND HARDENED and are symbolised by (h)".

Having considered this minor comment, I believe that this answer to the mandate is acceptable and may be sent to the Commission services.

Sincerely yours

J.Cuche

CEN/TC 125 ANSWER TO MANDATE M 116 FOR MASONRY AND RELATED PRODUCTS

Supplement for mortars with organic binders

B. MORTARS

B.3 Factory made rendering/plastering mortar with organic binders

B.3.1 Harmonized product standard

prEN 998-3

under preparation by CEN/TC 125 "Masonry"

Availability:

Date of Availability (DAV) - CEN stage 64	2007-12-31
Formal vote - CEN stage 51	2007-05-30
CEN Enquiry - CEN stage 41	2006-05-30
Working document circulated to technical body – CEN stage 32	2005-12-31

- (i) **Title:** Specification for mortars for masonry
Part 3 – Products for external rendering and internal plastering based on organic binders
- (ii) **Scope:** This harmonized EN will define and specify the characteristics and performance requirements of factory-made products, as a mix of one or more organic polymer binders, aggregates, additives and/or admixtures in the form of ready-mixed (powder) or ready-to-use (liquid or paste) products. They can be used in one or several coats.

This standard covers products for external rendering and internal plastering with organic binders for use on walls, ceilings and columns which contribute to protection and preservation of the construction, including products for smoothing and truing.

This standard does not cover the requirements for the following products:

- (a) dry mortars with calcium-sulphate and/or lime as the main active binder
- (b) mortars with cement and/or lime as the main active binder
- (c) mortars for structural concrete repair
- (d) thermal insulating products
- (e) products which are purely decorative such as paints and similar coatings.

This standard covers also rendering/plastering products with organic binders which contain inorganic binders and inert aggregates used as additive or admixture.

- (iii) **Intended uses:** Products for external or internal covering façades, walls, ceilings, columns, partitions of buildings and constructions.
- (iv) **Relevant characteristics:** The following performance characteristics are required by the mandate to be covered in the harmonized standard.

For all rendering/plastering products:

- 1. Adhesion (in end use conditions)

Additionally for all rendering/plastering products to be used on elements subject to fire requirements:

- 2. Reaction to fire (h)
 - 3. Fire resistance R,E and I (in end use conditions) / [Density] (h)
- NOTE: Organic products applied in thin coat(s) have currently no special fire resistance properties and do not modify those of the masonry or construction.

Additionally for all rendering products to be used on external elements:

- 4. Water absorption (h)
- NOTE: This characteristic can also be relevant for plastering products with a water-protective function of internal elements.

Additionally for rendering products to be used on external elements:

- 5. Water vapour permeability (h)

Additionally for rendering/plastering products to be used in elements subject to thermal requirements:

- 6. Thermal conductivity / [Density] (h)

Only for rendering/plastering products made with constituents coming from known radioactive sources intended for use of elements subject to radioactivity requirements:

- 7. Emission of radioactivity

- (v) **Durability aspects:**
 - 8. Durability of performance characteristics against freeze-thaw (when relevant)
- (vi) **Other aspects:**



The harmonized standard will also contain the following:

- a. Information on the decision of the Standing Committee for construction on the systems of attestation of conformity to be applied.
- b. Clauses on the evaluation of conformity of the product with this standard (comprising initial type testing and factory production control).
- c. Guidance on the relevant and complementary characteristics to be stated in the labelling accompanying the CE-marking and the way of expressing the determined values of these characteristics.
- d. References to other Directives and compliance conditions applying to the product (if any).

B.3.2 Supporting standards

The following European Standards are proposed as test or calculation methods for the determination of the performance characteristics or categories required by the Mandate and indicated in clause B.3.1 (iv) and B.3.1 (v) above:

B.3.2.1 Adhesion

**EN 1015-12:2000 'Methods of test for mortar for masonry – Part 12: Determination of adhesive strength of hardened rendering and plastering mortars on substrates' or
EN 1542:1999 'Products and systems for the protection and repair of concrete structures — Test methods — Measurement of bond strength by pull-off'**

NOTE: A precise regulation which test method should be used will be specified by TC 125/WG 2

B.3.2.2 Fire requirements

▪ Reaction to fire

EN 13501-1, Fire classification of construction products and building elements - Part 1: Classification using test data from reaction to fire tests.

Date of availability (DAV) – CEN stage 64 2002

NOTE: For products with a declared dry film average thicknesses ≤ 1 mm or mass ≤ 1 kg/m², or applied in liquid/paste low quantities $< 3,5$ kg/m², the reaction to fire is not to be measured because they do not appreciably modify this property of the substrate.

▪ Fire resistance

see 0.6.3

B.3.2.3 Water absorption

EN 1062-3, Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete - Part 3: Determination and classification of liquid-water transmission rate (permeability).

Date of availability (DAV) – CEN stage 64 1998

B.3.2.4 Water vapour permeability

EN ISO 7783-2, Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete - Part 2: Determination and classification of water-vapour transmission rate (permeability) (ISO 7783-2:1999).

Date of availability (DAV) – CEN stage 64

1999

B.3.2.5 Thermal conductivity

EN 1745:2002 'Masonry and masonry products — Methods for determining design thermal values'

Tabulated values for thermal conductivity in relation to dry bulk density for mortar with organic binders have to be added to Annex A.

B.3.2.6 Durability of performance characteristics

The durability shall be evaluated by testing the adhesion after appropriate conditioning according to EN 1062-11 (where relevant).

B.3.2.7 Emission of radioactivity

See 0.4.2

It is understood that there are no legal requirements in Member States for emission of radioactivity in relation to masonry and related products.

Therefore this characteristic will not be addressed in this product standard.

B.3.3 Additional information, comments and remarks

Other plastering/rendering products based on mineral and/or inorganic binders are covered by the following harmonized standards:

EN 998-1:2003 'Specification for mortar for masonry — Part 1: Rendering and plastering mortar'

Date of availability (DAV) – CEN stage 64

2003

CEN TC 125

NOTE: This harmonised standard covers rendering and plastering mortars based on lime and cement as main active binder which can also contain polymer or organic material as additive or admixture.

prEN 13279-1 Gypsum binders and gypsum plasters - Part 1: Definitions and requirements.

Date of availability (DAV) – CEN stage 64

2005

CEN TC 241

NOTE: This harmonised standard covers plastering mortars based on calcium sulphate as main active binder which can also contain polymer or organic material as additive or admixture.

prEN 1504-2, Products and systems for the protection and repair of
concrete structures - Definitions, requirements, quality control and
evaluation of conformity – Part 2: Surface protection systems for concrete.
Date of availability (DAV) – CEN stage 64 **2004**
CEN TC 104/SC 8

NOTE: This harmonised standard also covers products based on organic
binders for impregnation and covering coatings.

Template for the amendment of answer to the mandate/work programme

Document identification: ...

Technical Committee CEN/TC 125

Date 2006-04-27

Documents	Reference Number	Date of issue
Mandate number	M 116	1997-05-28
Original answer to the Mandate	CEN/TC 125 N456	1998-06-10
Commission's acceptance	Commission letter ref. no.: 23175 (CEN/TC 125 N497)	1998-11-09
1 st amendment of the answer to the mandate	CEN/TC 125 N823	2005-03-14
2 nd amendment of the answer to the mandate		

List of changes:

Clause of the original document	Reason for the change (short description)	Supporting information (if relevant)
B.1.3.2	Decision to draft new part of EN 998 following liaison with CEN/TC 139	Further detail as requested in Commission's Acceptance

The changes listed here above are detailed here below in the relevant clauses on basis of the template for the answer to the Mandate (Document CMF N032 rev.2 Suppl. to BTS1 N877).