



DRAFT EAST AFRICAN STANDARD

Textured paints — Specification

EAST AFRICAN COMMUNITY

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Foreword

Development of the East African Standards has been necessitated by the need for harmonizing requirements governing quality of products and services in the East African Community. It is envisaged that through harmonized standardization, trade barriers that are encountered when goods and services are exchanged within the Community will be removed.

The Community has established an East African Standards Committee (EASC) mandated to develop and issue East African Standards (EAS). The Committee is composed of representatives of the National Standards Bodies in Partner States, together with the representatives from the public and private sector organizations in the community.

East African Standards are developed through Technical Committees that are representative of key stakeholders including government, academia, consumer groups, private sector and other interested parties. Draft East African Standards are circulated to stakeholders through the National Standards Bodies in the Partner States. The comments received are discussed and incorporated before finalization of standards, in accordance with the Principles and procedures for development of East African Standards.

East African Standards are subject to review, to keep pace with technological advances. Users of the East African Standards are therefore expected to ensure that they always have the latest versions of the standards they are implementing.

The committee responsible for this document is Technical Committee EASC/TC 070, *Paints, varnishes and related products*.

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Textured paints — Specification

1 Scope

This Draft East African Standard specifies requirements, sampling and test methods for water based textured paints suitable for exterior and Interior use on concrete surfaces, boards, primed wood, primed metal to give a protective and decorative coating.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4618, Paints and varnishes — Terms and definitions

ISO 6503 Paints and varnishes — Determination of total lead — Flame atomic absorption spectrometric method

ISO 17132, Paints and varnishes — T-bend test

ISO 3251, Paints varnishes and plastics — Determination of non-volatile matter content

ISO 1514, Paints and varnishes — Standard panels for testing

ISO 1518-1, Paints and varnishes — Determination of scratch resistance — Part 1: Constant-loading method

ISO 1524, Paints, varnishes and printing ink — Determination of fineness of grind

ISO 15528, Paints, varnishes and raw materials for paints and varnishes — Sampling

ISO 3270, Paints and varnishes and their raw materials — Temperatures and humidities for conditioning and testing

ISO 3310-1, Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth

ISO 9117-1, Paints and varnishes — Drying tests — Part 1: Determination of through-dry state and through-dry time

ASTM F735-17, Standard test method for abrasion resistance of transparent plastics and coatings using the oscillating sand method

ASTM D4060-14, Standard test method for abrasion resistance of organic coatings by the taber abraser

ASTM D4828-94, Standard test methods for practical washability of organic coatings

ASTM D1653-13, Standard test methods for water vapour transmission of organic coating films

3 Terms and definitions

For the purposes of this document, the definitions given in ISO 4618 and the following apply:

3.1

textured paints

paint made of coarse or fine grain consisting usually of extenders and sand with a water-borne binder and used for creating textured surfaces

4 Requirements

4.1 General requirements

4.1.1 Composition

The textured paint shall consist of chemically inert pigments, fillers and additives and suitable ingredients as may be necessary to produce a paint so as to satisfy the requirements of this standard.

4.1.2 Condition in the container

The textured paint shall show no evidence of biological growth, corrosion of the container and shall be free from lumps, and foreign material.

4.1.3 Application properties

The textured paint shall be suitable for application in accordance with manufacturers instruction and shall not show any undesirable characteristics.

4.1.3 The textured paint shall be aggregated or non-aggregated.

4.2 Specific requirements

The textured paints shall meet the specific requirements given in Table 1 when tested in accordance with the test methods specified therein.

Table 1 — Specific requirements for textured paints

S/N	Characteristic		Requirement	Test method
i.	Total lead content, ppm, max.		90	ISO 6503
ii.	Solids content, %, m/m, min.		50	ISO 3251
iii.	Fineness of dispersion, /fineness of grind Hegman-type Gage, μm , min.		25	ISO 1524
iv.	Drying time at $25^\circ\text{C} \pm 2^\circ\text{C}$, h, max.	Hard drying	12	ISO 9117-3
		Surface drying	2	
v.	Chromium, mg/kg in dried paints, max.		5	ISO 3856-6
vi.	Flexibility on primed metal for non-aggregated paints		Shall not crack or show loss of adhesion when bent through 180° over a 4-mm diameter mandrel	ISO 17132
vii.	Abrasion and scuffing		Shall be resistant to abrasion and scuffing	ASTM F735-17

viii.	UV resistance	Shall be resistant to chalking, colour change, flaking or peeling when exposed to UV radiations	ASTM D4060-14
ix.	Water vapour permeability	Shall be resistant to water Ingress	ASTM D1653-13
x.	Washability, cycles, min.	Shall cleaned up to 2000 scrubs without exhibiting wear or signs or loss of adhesion	ASTM D4828-94
xi.	Particle size for aggregated textured paints	Particles size for aggregated textured finishes shall be as specified in the labelling	ISO 3310-1
xii.	Resistance to growth of moulds	Shall be resistant to growth of moulds	ASTM D-3273

7 Packaging and labelling

7.1 Packaging

The textured paint shall be packaged in a suitable container that prevents it from deterioration during storage, transportation and normal handling.

7.2 Labelling

7.2.1 The labelling shall be either in English, Kiswahili or French or in combination as agreed between the manufacturer and / or the supplier. Any other language is optional.

7.2.2 Each container shall be legibly and indelibly marked with the following information:

- a) the words “ textured paints”;
- b) name and address of the manufacturer and trade mark if any;
- c) net contents in kg;
- d) date of manufacture;
- e) best before date;
- f) colour of the paint;
- g) Particle size for aggregated paints;
- h) instructions for use, storage, disposal and safety requirements; and
- i) batch number.

8 Sampling

Sampling shall be done in accordance with ISO 15528.

Bibliography

Public Review Draft 2019

Public Review Draft 2019