



DRAFT EAST AFRICAN STANDARD

2-Pack acrylic resin-based auto-refinishing paint — 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*.

Attention is drawn to the possibility that some of the elements of this document may be subject of patent rights. EAC shall not be held responsible for identifying any or all such patent rights.

This second edition cancels and replaces the first edition (EAS 856: 2016) and amendment 1: 2019 which has been technically revised.

2-Pack acrylic resin-based auto-refinishing paint — Specification

1 Scope

This Draft East African Standard specifies requirements, sampling and test methods for 2-Pack acrylic resin-based auto-refinishing paint.

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

ISO 2813, *Paints and varnishes — Determination of gloss value at 20 degrees, 60 degrees and 85 degrees*

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

ISO 4618, *Paints and varnishes — Terms and definitions*

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

ISO 6504-3, *Paints and varnishes — Determination of hiding power — Part 3: Determination of contrast ratio of light coloured paints at a fixed spreading rate*

ISO 9117-3, *Paints and varnishes — Drying tests — Part 3: Surface-drying test using ballotini*

ISO 9117-4, *Paints and varnishes — Drying tests — Part 4: Test using a mechanical recorder*

ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

ISO 15184, *Paints and varnishes — Determination of film hardness by the pencil test*

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

ISO 2884-1, *Paints and varnishes — Determination of viscosity using rotary viscometers — Part 1: Cone-and-plate viscometer operated at a high rate of shear*

ISO 2884-2, *Paints and varnishes — Determination of viscosity using rotary viscometers Part 2: Disc or ball viscometer operated at a specified speed*

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in ISO 4618 shall apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

4 Requirements

4.1 General requirements

4.1.1 Components

The paint shall be made of two components as follows:

- a) Component A - made of acrylic resin; and
- b) Component B - hardener.

4.1.2 Mixing ratio of components

The manufacturer shall recommend the mixing ratio of components

4.1.3 Pigments

The paint shall be made of light fast pigments.

4.1.4 Thinners

The manufacturer shall recommend the thinner to be used.

4.2 Specific requirements

The paint components shall comply with the requirements given in Table 1, when tested in accordance with the test methods therein.

Table 1 — Specific requirements for 2-Pack acrylic resin-based auto-refinishing paints

S/N	Characteristic	Requirement			Test method
		Component A	Component B	Component A+B	
i.	Solids content % m/m, min.	-	-	50	ISO 3251
ii.	Acidity,%, max.	10	-	-	ISO 2114
iii.	Gloss at 20°, min.	-	-	80	ISO 2813
iv.	Hardness after seven days curing, min.	-	-	2H	ISO 15184
v.	Dry opacity ,%,min*.	-	-	90	ISO 6504-3
vi.	Flow time , s, max.	250	-	-	ISO 2884
vi.	Drying time, h, max.: <ul style="list-style-type: none">• Surface drying time• Hard drying time	<div>-</div> <div>-</div>	<div>-</div> <div>-</div>	<div>2</div> <div>24</div>	ISO 9117-3
vi.	Pot-life, h	2-9			ISO 9514:2019
ix.	Total Lead content ppm, max.	90			ISO 6503
x.	Resistance to neutral salt spray	To pass test			ISO 9227

*Dry opacity only applies for pigmented paint products

5 Storage stability

The paint when stored in the original sealed container under room temperature shall meet all the requirements for a period of one year from the date of manufacture.

6 Packaging

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

7 Labelling

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

7.2 The paint shall be packaged in containers that are legibly and indelibly marked with the following information:

- name of the product as “2-Pack acrylic auto-refinishing paint”;
- manufacturer’s name and physical address and/or registered trade mark;
- indication of colour/colour code;
- date of manufacture;
- net content;

- f) batch/code number;
- g) cautionary statement/symbols with the words like : “Inflammable liquid”;
- h) country of origin;
- i) best before date;
- j) instructions for use, safety, storage and disposal; and
- k) pot life

8 Sampling

Sampling shall be done in accordance with ISO 15528.

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Bibliography

EAS 856:2016, *2-Pack acrylic resin-based auto-refinishing paint — Specification*

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