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FOREIGN TECHNOLOGY DIVISION



OIL AND ALKYD PAINTS READY FOR USE



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FTD -ID(<u>RS)T-1040</u>-79

EDITED TRANSLATION

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 $*_{\underline{y}\underline{0}}$ initially, after vowels, and after ъ, ь; <u>е</u> elsewnere. then written as ё in Russian, transliterate as yё or ё.

RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

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OIL AND ALKYD PAINTS READY FOR USE

GOST 10503-71* Replaces GOST 10503-63

By decree of the State Committee of Standards of the Council of Ministers of the USSR from 5 August 1971 No. 1358 the period of introduction is established <u>from 1 July 1972</u>.

Nonobservance of the standard is punishable by law

This standard is extended to oil and alkyd paints ready for use, which are a suspension of pigments (or pigments and fillers) in different drying oils with the introduction of a desiccant and also of additives (Aerosil, lecithin and others), which prevent the formation of a thick sediment, or without them.

The oil and alkyd paints ready for use are intended for external and internal finishing works (with the exception of the painting of floors) and for the painting of metallic and wooden articles.

Coatings with oil and alkyd paints for external works (two coats for metal) should preserve the protective properties in a moderate climate for a year.

The paints are applied to the surface with a brush, sprayer or roller.

1. Brands

*Reprint (January, 1976) with change No. 2 published in September of 1976.

1.1. The oil and alkyd paints ready for use, depending on the type of the film-forming substance and their purpose, must be produced in the following brands indicated in Table 1.

TABLE 1

Names and Br	ands of Paint	Film-forming sub-	Main nigments
For external works	For internal works	stance entering into composition of paints	and fillers entering into composition of paints
Zinc white MA- 11	-	Natural drying oil	Drying zinc white
Zinc white MA-11N	-	n Combined druing	Drying zinc white with addition of barite, talc Drying zinc
MA-15		oil K-3, K-5	white
Zinc white MA-15N	-	11 H	Drying zinc white with addition of barite, talc
Zinc white GF-13	-	Glyptal drying oil	Drying zinc white
Zinc white GF-13N	-	11 11	Drying zinc white with addition of barite, talc
Zinc white PF-14	~	11 11	Drying zinc white
Zinc white PF-14N	_	11 11	Drying zinc white with addition of barite, talc
-	Zinc white MA-22	Drying oil	Drying zinc white
_	Zinc white MA-22N	11 17	Drying zinc white with addition of barite, talc, chalk
-	Lithop one wh ite MA-21	Natural drying oil	Drying litho- pone

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Table 1

A DESCRIPTION OF THE OWNER OF THE

Names and Brand	ls of Paint	Film-forming	Main pigments					
For external works	For internal works	substance enter ing into composi- tion of paints	and fillers entering into composition of paints					
_	Lithopone white MA-21N	Natural drying oil	Drying litho- pone with ad- dition of bar- ite, talc, chalk					
-	Lithopone white MA-25	Combined drying oil K-2, K-3, K-5, K-12	Drying litho- pone					
-	Lithopone white MA-25N	Combined drying oil K-2, K-3, K-5, K-12	Drying litho- pone with ad- dition of bar- ite, talc, chalk					
-	Lithopone white MA-22	Drying oil	Drying litho- pone					
-	Lithopone white MA-22N	Drying oil	Drying litho- pone with ad- dition of bar- ite, talc, chalk					
Colored paints MA-11	-	Natural drying oil	Drying zinc white with ad- dition of bar- ite, talc					
Colored paints MA-15	-	Combined drying oil K-3, K-5						
Colored paints GF-13	-	Glyptal drying oil	11 11 11					
Colored paints PF-14	-	Pentaptal [sp.] drying oil	17 17 FT					
_	Colored paints MA-21	Natural drying oil	Drying litho- pone, titani- um dioxide pigmemented of anatase form or drying zinc white, or zinc pigment with addition of barite, talc chalk					

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<u>Table 1</u>		L	
Names and Bra For external works	ands of Paint For internal works	Film-forming substance enter- ing into composi- tion of paints	Main pigments and fillers entering into composition of paints
	Colored paints MA-25	Combined drying oil K-2, K-3, K-5, K-12	[Same as above for MA-21]
-	Colored paints MA-22	Drying oil	[Same as above]
-	Colored paints KS-29 Colored paints KS-29K	Xyptal [sp.] dry- ing oil, 55% 70% xyptal drying	[Same as above] [Same as above]
Iron minium MA-11	-	Natural drying oil	Drying iron minium for the paint and var- nish industry
Iron minium MA-15	-	Combined drying oil K-3, K-5	[Same as above]
Iron minium GF-13	_	Glyptal drying oil	[S a me as above]
Iron minium PF-14	-	Pentaptal [sp.] drying oil	[Same as above]
Prussian Red MA-11	_	Natural drying oil	Natural drying Prussian red
Prussian Red MA-15	-	Natural drying oil	17 17
Prussian Red GF-13	-	Glyptal drying oil	17 17
Prussian Red PF-14	_	Pentaptal [sp.] drying oil	11 11
Ocher MA-11	-	Natural drying 011	Drying ocher
Ocher MA-15	-	Combined drying oil K-3, K-5	77 17
Ocher GF-13	-	Glyptal drying oil	
Ocher Pf-14	-	Pentaptal [sp.] drying oil	" "
NOTE: Index N duction of a f (Modified edit	for the zinc and li iller of up to 25% ion - Information I	thopone white indio of the pigment part ndex of Standards,	at e the intro- t. No. 9, 1975)

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2. Technical Requirements

2.1 The oil and alkyd paints ready for use should be produced in the following colors: 1vory black, pale yellow, beige, gray, light blue, blue, yellow, pistachio, green, dark red, reddish brown, and brown for the outer coatings; light gray blue, pale lettuce green, imitation ivory black, pale yellow, light beige, beige, gray, light blue, sky blue, dark blue, yellow, lettuce green, pistachio, green, red, claret, reddish brown, brown, light turquoise, light gray, light sandy, and rose beige for coatings inside a room.

It is permitted to produce paints of other colors not provided for by this standard during a period of not more than 24 months according to the technical specifications confirmed in established order. All the indices of the paints must conform to requirements of this standard with the exception of the color and covering power, which are established by the technical specifications.

During the indicated period the paints produced according to the technical specifications and accepted for further production according to the requirement of the user must be included into the present standard.

(Modified edition - <u>Information Index of Standards</u>, No. 9, 1975).

2.2. The formulas of the oil and alkyd paints ready for use must be coordinated with the Ministry of Public Health of the USSR and confirmed by the Ministry of the Chemical Industry.

2.3. In the production, testing and use of the paints, the precautionary measures provided in the appropriate instructions on accident prevention must be strictly observed.

2.4. According to the physicomechanical indices, the oil and alkyd paints ready for use must conform to the requirements and standards indicated in Table 2.

[Table 2 begins on next page with the key at the end.]

TABLE 2	ı												- 1	lon M	ыл	ЛЯ М	apor	٢.										
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Цанменовання показате існ	N.A.II	M.4.15	NA-29. Fo 13.	11-0-14	HIL-IM	MA-15H WA-25H FA 101	ПФ-1411	MA-21	M.A.22	MA-25	MA 21H	MA-22H	M.A.25H	MA 11	M.A.15	ľΦ-13, ΠΦ- 1 4	MA-21	MA 22, KC 29	VA-25, KC-24K	M-11	11-11	ΓΦ-13. ΠΦ-1:	MA-11	MA-15	ΓΦ-13, ΠΦ-14	MA-11	MA-15	
Нод слоновую кости палевой светло-бежевой бежевой серей светло-голубой голубой синей желтой салатной фисташковой зеленой красной темно-красной		1	B .		r BCC HP	<u>-1-</u>	<u>лени</u> лах	2 Ном Дол	y o hyc	бра	~ 13ЩV			209 985 304 16. 16. 10. 17. 10. 16. 16. 16. 16. 16. 16. 16. 16. 16. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17	2. [2.] 2.]	а п ела онци еки талс 3 1 5 2 4 4 0 6 6 6 6 6 6	axo x = 10 (1000 912 902 902 902 902 902 902 902 902 902 90	1911 1801 2008 2199 2199 2199 2198 2198 2198 2198 219	ься гов ров ых 13 71 89 45 12 74 34 74 34 76 10 10 10 16 19	L	D	• • • • •	2 :рљ; еде:	len 1ax		y où IVek	рази 08	<u>1</u> <u>-</u>
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показателей бордо красно-коричневой коричневой светло-бирюзовой светло-серой светло-песочной розово-бежевой светло-серо-голубой		11-WW	MA-15	MA-22. 1 4	MA-IIH	MA-15H	MA-22H. F ПФ-14H	MA-21	MA.22	2-W		MA-21H	MA-22H	MA-25H	501; 519;	манточи образцу 999 МА-15		17-YW 3; 5601; 5603; 560; 560; 243;	4 602 623 334 585 994 276	MA-23, N		NIA-15	F 6-13, D	11-W	MA-15	ΓΦ-13.	MA-11	MA-15
показателей бордо красно-коричневой коричневой светло-биркозовой светло-серой светло-серой светло-серо светло-серо-голубой		11-WW	MA-15	MA-22, 19	MA-IIH	MA-15H	MA-22H, F ПФ-14H		MA-22	MA-55		MA-21H	MA-22H	MA-25H	501: 519; 519;	C A JEHHOWN OGDABUY 999 MA-15	Ĩ. ŝ; ⊕ 2}	3; 501; 560; 993; 245;	4 602 623 334 585 994 276	MA-25, W		MA-15		MA-11	MA-15	ΓΦ-13.	MA-II	MA-15
бордо красно-коричневой коричневой светло-бирюзовой светло-песочной розово-бежевой светло-сероголубой светло-серо-голубой светло-серо-голубой светло-серо-голубой светло-серо-голубой светло-серо-голубой		2	MA-15	25	30 30	HSI-WW	1 HG-FM	12-W	20		2	HI-24	H27-YW	44-25H	501; 519; 28 2	CO CO CONTRACTOR OF CONTRACTON	μ τ τ τ τ τ τ τ τ τ τ τ τ τ	17. WW 3; 501; 560; 993; 245;	4 602 334 585 994 276	2 2	30	91-12 27 22		11-W	30 2 30 2	02 0	38 38	E MA-15
показателей бордо красно-коричневой коричневой светло-серой светло-серой светло-серой светло-серо-голубой		2 5	H 06	25 27	HII-KW	HSI-FM	24 23	13-W	20 20	9 22 9 11	2	HA21H	HZ-YW	22 2	501: 519; 519; 537; 28 ;	1-WW 602. 6	τ s: φ φ 3	18. FW 3; 5001; 519; 3333; 5601; 5503; 24355; 2435; 2435; 2435; 2435; 2435; 2435; 2435; 2435; 2435; 2435; 2435; 2435; 2435; 2435; 2455; 2435; 2435; 2435; 2435; 2435; 24355; 2455; 2455; 2455; 2455; 2	20 2 20 1	N (95-FW)	30	SI-PW 27 2 12 2	3	22 · · ·	30 2 11 2	26 26	38 5	MA-15

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Table 2 cont'd. 🎩 Нормил для мосок Y.C. Сурик железный 🖉 Брасти вна слиа ana sasasamaw neta tambaca My Yua I E Навыевыевые ÷ 11-011 2 ÷C. ... him is a ferred F@-1 , 15-bð L . . . Ě 111.22 10.13. 11.2 $\left\| \cdot \right\|$ $\hat{\Sigma}_{1}$ 1111 111 N 1-11 13 ÷ 11.11 ÷į, いてき 11 5 11 -11 E 51 111 ÷ -••• 5 Степень перетира метолом «клина» не бо-70 90 80 80 в в крывистость крас-40 40 70 ки малярной консистеннин, г. м², не более: 170 200 190 3595180 170 для цветных красок 210210 под слоновую кость 195195 л**а.тево**й светло бежевой 160 85 бежевой 130 65 100 серой 100 100 светло-голубой 100 100 голубой синей 100 желтой 460 160 440 салатной 90 фисташковой 135 80 зеленой 80 100 красной 45 темно-красной 100 60040 красно-коричневой 50 100 коричневой 65 100 светло-бирюзовой 170 П Нормы для марок Сурнк Wit Белила литопонные Краски цистиме Белила цинковые Мумая Uxpa ACAC HUH T HEI Наименования ž ŕ ПФ-14 NO-39 2 ± Ż показателей ė 111. MA-15H 1A-22H, F& e ė Ú, Ê Ê MII-MM M.A.21H MA-22H MA-25H MA-15 MA-22. ПФ-14 ΓΦ-13, 1 MA-22. M.4-25. MA-15 F0-B. 1 ć 11-FW M.4-15 ΓΦ-13. MA-11 MA-15 MA-15 MA-21 MA-22 MA-25 M.A.21 II-YW 11.4.2 MA-L ė оветлю-серой 165 светло-песочной 235 розово-бежевой 230 светло-серо-голу-60Å 130 **бледно-салатной** 7. Время высых 170 высыхания при 20±2°С, ч, не более: 42 10 12 12 14 24 12 от «пыли» до степени 3 8. Твердость пленки по 24 24 24 24 24 маятниковому прибору, 0.13 0,14 0,13 0,10 0,12 0.12 е менее 9. Стойкость пленки к сухому облучению, ч после сушки при 18-**9Д** Не определяют 98. Не определяют 22°С в течение 120 ч 10. Водостойкость 2 $\mathbf{2}$ пленки при 18-22°С, 0,5 0,5 0,5 не менее

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Примечания: 1. Образцы цвета красок утверждаются Министерство и химической прочышленности

сорязци цвета красок утверждаются запистерство у димической прознапленности
 При загустевании красок допускается разбавление их уайт-спиритом (ГОСТ 3134 52) в количестве не бо-лее 5%, при этом вязкость красок должна соответствовать п. 4 табл 2. (Изменениая редакция - «Шиформ, указатель стандартов. № 9 1975 г.).

KEY to Table 2:

I. Names of indices; II. Standards for brands; III. Zinc white; IV. Lithopone white; V. Colored paints; VI. Iron minium; VII. Prussian red; VIII. Ocher. [Nomenclature such as MA-11 is the same as that in Table 1.]

1A. Color of paint film; Imitation ivory black, pale yellow, light beige, beige, gray, light blue, sky blue, dark blue, yellow, lettuce green, pistachio, green, red, dark red, claret, reddish brown, brown, light turquoise, light gray, light sandy, rose beige, light gray blue, pale lettuce green; 1B. According to the confirmed specimen within tolerances; 1C.a) Must be found within colors of following numbers of the card file of color standards; b) according to the confirmed specimen within tolerances; c) tolerance according to confirmed specimen; 1D. According to the confirmed specimen within tolerances.

2A. Content of film-forming substance in %, not less than;
3A. Content of solvent in the paint in %, not more than;
4A. Viscosity at 20°C according to the viscosimeter VZ-4 in s;
5A. Degree of wear by the "wedge" method, not more than;
6A. Covering power of paint of paint store consistency in g/m², not more than:

for colored paints: imitation 1/ory black, pale yellow, light beige, beige, gray light blue, sky blue, dark blue, yellow, lettuce green, pistachio, green, red, dark red, claret, reddish brown, brown, light turquoise, light gray, light sandy, rose beige, light gray blue, pale lettuce green.

7A. Time of drying at $20\pm2^{\circ}$ C in hours, not more than: from "spray"; up to degree 3.

8A. Hardness of the film according to a pendulum instrument, not less than.

9A. Resistance of the film to dry exposure in hours after drying at $18-22^{\circ}$ C for 120 hours.

9B. Not determined.

9D. Not determined.

10A. Water resistance of the film at $18-22^{\circ}$ C in hours, not less than.

Notes [to Table 2]:

1.Samples of the color of the paints are confirmed by the Ministry of the Chemical Industry.

2. With the thickening of the paints, thinning of them is allowed with white spirit (GOST 3134-52) in an amount of not more than 5%, and the viscosity of the paints must conform to item No. 4 of Table 2.

(Modified edition - <u>Information Index of Standards</u>, No. 9, 1975. 3. Acceptance Rules

3.1. To check the quality of the paint for the conformity of its indices to requirements of this standard, rules of sampling and methods of tests indicated below must be used.

3.2. In checking the quality, select the sample of paint in conformity to GOST 9980-75.

3.3. For a batch take the quantity of the paint of one brand and one color obtained for one industrial process and accompanied by one document on quality.

4. Methods of tests

4.1 Preparation of the specimens for the test.

The color of the film, time of drying, water resistance, and resistance of the film to the dry exposure are determined on plates with a dimension of 70 X 150 mm of steel (GOST 9045-70, GOST 16523-70 of brand 08kp and 08ps) or of polished sheet steel (GOST 1127-72) with a thickness of 0.25-0.32 mm. The hardness of the film is determined on glass plates (GOST 8832-58*, section II). The plates for the application of the coatings are prepared in conformity with GOST 8832-58* (section III). [See note *, next page.]

Before the test the paint is stirred, diluted with white spirit to a viscosity of 65-80 St according to viscosimeter VZ-4, filtered through a sieve with a mesh of No. 056 K (GOST 3584-73), and applied with a brush to the prepared plates. To determine the time of the drying and hardness, the paint is applied with one coat, and to determine the water resistance and resistance to dry exposure, two coats are applied. In determining the color, the paint is applied up to the complete covering of the base layer. Each coat of paint is dried at $18-22^{\circ}C$ for 24 hours. In the determination of the resistance of the film of the paint to dry exposure, the first coat of paint is dried at $18-22^{\circ}C$ for 24 hours and the second coat, at $18-22^{\circ}C$ for 120 hours.

The thickness of the single-layered coat after drying should be 25-35 μm and of the two-layered coat, 50-60 μm .

4.2. The color of the film of the paint is determined visually with the natural scattering of light, by a comparison of the pigment with the card of the card file of the color standards, or with the confirmed specimen.

4.3. Determination of the content of the film-forming substance and solvent

The content of the film-forming substance (X) in percent is computed according to formula

$$X = 100 - (X_1 + X_2)$$

where:

£

 X_1 is the content of the hard substance in the paint in %; it is determined in conformity with GOST 17537-72, using as the solvent acetone or a mixture of acetone with ethyl alcohol in the ratio of 3 : 2 in volume;

 X_2 - the content of the paint vehicle in the paint in %; it is determined in conformity with GOST 17537-72.

4.4. Viscosity of the paint is determined by the viscosimeter VZ-4 in conformity with GOST 8420-74.

4.5 The degree of wear is determined by the "wedge" method in conformity with GOST 6589-74 according to the limit of visible individual aggregates.

4.6. The covering power of the paint of paint store consistency is determined in conformity with GOST 8784-75 on a glass plate.

4.7. The drying time is determined in conformity with GOST 19007-73, and for paints of brand MA-22 and MA-22N (on drying oil of brand PV) a trace on the area of the load is allowed in

*Since 1 January 1977 GOST 8832-76 has been introduced.

determining the drying time up to degree 3.

(Modified edition - Information Index of Standards, No. 9,

4.8. Hardness of the film is determined in conformity with GOST 5233-67.

4.9. Determination of the resistance of the film to dry exposure

The specimen prepared according to item 4.1 is covered by 1/3 with a light-impenetrable black paper and placed under a mercury quartz lamp of brand PRK-2 at a distance of 35 cm from the lamp. The steady-state mode of the lamp must be: a voltage of 120 + 6 V and a current of 3.75 ± 0.25 A.

An exposure of 2 hours is produced, after which with the daytime scattered light the exposed part of the coat is compared with the coat which with exposure was covered with black paper.

An insignificant change in the color and an insignificant tarnishing of the film of the paint are allowed.

4.10. Determination of the water resistance of the film

The specimen prepared according to item 4.1 is placed into distilled water (GOST 6709-72) up to 2/3 of the height and held at $20\pm2^{\circ}$ C for 0.5 hours. Then the plates are removed, dried with filter paper, exposed in air at $20\pm2^{\circ}$ C for 2 hours, and examined by the naked eye. The film must not be broken, flaked off, wrinkled up, and blistered. An insignificant tarnishing and insignificant change in color of the paint's film are allowed.

5. Packing, marking, transporting, and storage

5.1. The packing, marking, transporting, and storage of the paints ready for use are carried out in conformity with GOST 9980-75. The paints delivered to the trade network are packed in metal cans (GOST 6128-75) with a capacity of 0.5 to 3 liters or in a container made of polyethelene and are set in wooden boxes per GOST 18573-73 or boxes of corrugated cardboard (GOST 13841-68).

The retail value must be additionally indicated on the label of the paint delivered to the trade network.

6. Guarantee of manufacture

6.1. The oil and alkyd paint ready for use must be inspected

by the technical inspector of the manufacture. The manufacture must guarantee the conformity of the paint to requirements of this standard with observance by the use of conditions of transporting and storage established by the present standard.

6.2. The guaranteed period of storage is 6 months from the day of manufacture.

Upon expiration of the indicated period, before use the paint is tested and considered fit if after its thinning it conforms in all the remaining indices to requirements of this standard.

Replacement

GOST 1127-72 is introduced in place of GOST 1127-57. 11 11 11 GOST 3584-73 " 11 GOST 3584-53. ** GOST 6128-75 " 11 " GOST 6128-67. 11 GOST 6589-74 " 11 11 tt. " GOST 6589-57. 11 11 11 " GOST 6709-53. GOST 6709-72 " 11 GOST 8420-74 " 11 11 " GOST 8420-57. GOST 914-56 in the part of GOST 9045-70 " 11 ** 11 17 the sheets of very deep drawing. GOST 9980-75 is introduced in place of GOST 9980-62. 11 11 11 11 GOST 16523-70 " GOST 914--56, except for sheets of very deep drawing. GOST 17537-72 is introduced in place of COST 6059-51 and GOST 6989-54. GOST 18573-73 " GOST 8872-63 in the part of the cases for the chemical industry. GOST 1900-73 is introduced in place of OST 10086-39, in part M.I. 17.

DISTRIBUTION LIST

DISTRIBUTION DIRECT TO RECIPIENT

ORGAN	IZATION	MICROFICHE	ORGAN	IZATION	MICROFICHE
A205	DMATC	1	E053	AF/INAKA	1
A210	DMAAC	2	E017	AF/RDXTR-W	1
B344	DIA/RDS-3C	9	E403	AFSC/INA	1
C043	USAMIIA	1	E404	AEDC	1
C509	BALLISTIC RES LABS	1	E408	AFWL	1
C510	AIR MOBILITY RED	1	E410	ADTC	1
	LAB/FI0				
C513	PICATINNY ARSENAL	1		FTD	
C535	AVIATION SYS COMD	1		CCN	1
C591	FSTC	5		ASD/FTD/ NII	s 3
C619	MIA REDSTONE	1		NIA/PHS	1
D008	NISC	1		NIIS	2
H300	USAICE (USAREUR)	١			
P005	DOE	1			
P050	CIA/CRB/ADD/SD	2			
NAVOR	DSTA (50L)	1			
NASA/	NST-44	1			
AFIT/	LD	1			
LLL/C	ode L-389	1			
NSA/J	213/TDL	2			

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