USE IN TOYS
UNE-EN71-3

tkrom® pinturas

PRODUCT

MULTI-SURFACE ACRYLIC ENAMEL

CONTAINERS

250 ML, 750 ML, 4 L, 12 L

PRODUCT DESCRIPTION

High-quality, water-based, and multi-surface acrylic enamel based on pure acrylic emulsion. Decorates and protects outdoor and indoor surfaces. Fast dry and non-tacky enamel that allows for use in a short period of time. Easy to apply, it has a pleasant aroma as well as great opacity and performance, providing professional finishes. Non-yellowing enamel that preserves gloss. Good adhesion to wood, metal, plastic, ceramic, and masonry surfaces. A new technology that provides the highest performance in washability, resistance, and durability. Low content of volatile organic compounds (VOCs). With anti-mould preservative.

USES / APPLICATION

For outdoor and indoor use. Suitable for all types of surfaces, such as iron, aluminium, galvanised steel, wood, PVC, melamine, porous ceramics, painted surfaces, masonry surfaces, lacquered doors, windows, furniture, fences, garden furniture, tiles, and radiators.

It complies with the UNE-EN toy Safety standard that allows its application in toys and children´s furniture.

Due to its great ease of application, this product is also ideal for do-it-yourself work.

FIELD PROPERTIES

Easy to apply
No splashing during application
Great levelling
Fast dry High performance
Great coverage/opacity
Non-tacky (high resistance to blocking)
Great washability
Great hardness
Great flexibility
Great adhesion to multiple surfaces
Impact and scratch resistance
Resistant to household cleaning products
Very good resistance to weathering and atmospheric agents
Non-yellowing
Direct application to metal
With anti-mould preservative

TECHNICAL DATA

	MATT	SATIN	GLOSS		
Chemical Composition	Pure acrylic emulsion, pigments, and extenders.	Pure acrylic emulsion, pigments, and extenders.	Pure acrylic emulsion, pigments, and extenders.		
Colour	White	White	White		
Finish	Matt	Satin	Glossy	UNE-EN 13300	IL-0514-01
60º gloss	5-10 GU	28-38 GU	67-71 GU	UNE-EN ISO 2813	IL-0514-01
Theoretical performance and contrast/opacity ratio	Class 1 (99.5%) for theoretical performance of 6m²/L and 74 microns of dry film. Class 2 (98%) for theoretical performance of 9m²/L and 50 microns of dry film	Class 1 (99.5%) for theoretical performance of 6m²/L and 67 microns of dry film. Class 2 (98%) for theoretical performance of 10m²/L and 42 microns of dry film	Class 1 (99.5%) for theoretical performance of 6m²/L and 68 microns of dry film. Class 2 (98%) for theoretical performance of 10m2/L and 41 microns of dry film	UNE-EN 13300 UNE-EN ISO 6504-3 UNE-EN ISO 23811	IL-0514-05 IL-0514-11
Density	1.30-1.34 g/mL	1.28-1.32 g/mL	1.25-1.29 g/mL	UNE-EN ISO 2811-1	IL-0514-06
Krebbs Viscosity	90-115 KU	90-115 KU	90-115 KU		IL-0514-08
Solids by Volume	44-48%	40-44%	38-42%	UNE-EN ISO 23811	IL-0514-11
VOC	<35 g/L Maximum value allowed by the EU: 130 g/L	<35 g/L Maximum value allowed by the EU: 130 g/L	<35 g/L Maximum value allowed by the EU: 130 g/L	2,004/42/IIA Classification	
Drying time	15-30 min for dry to touch 30 min-1 h for complete dry	15-30 min for dry to touch 30 min-1 h for complete dry	15-30 min for dry to touch 30 min-1 h for complete dry	UNE 48301	IL-0514-15
Repainting time	1-3 h	1-3 h	1-3 h		
Dilution	0 to 20% depending on the application system	0 to 20% depending on the application system	0 to 20% depending on the application system		
Thinner	Water	Water	Water		
Resistance to wet rubbing	Class 1	Class 1	Class 1	UNE-EN 13300 UNE-EN ISO 11998	IL-0514-17
Persoz hardness	130s (28 days)	172s (28 days)	182s (28 days)	UNE-EN ISO 1522	IL-0514-26
Abrasion Resistance	40 mg/1000 cycles (7 days)	40 mg/1000 cycles (7 days)	54 mg/1000 cycles (7 days)	UNE 48250	IL-0514-18
(TABER)	9 (+ 10% of water)	8 (+ 10% of water)	8 (+ 10% of water)	UNE 48043	IL-0514-27
Levelling index	150 microns (+ 10% of water)	175 microns (+ 10% of water)	200 microns (+ 10% of water)	UNE-EN ISO 16862	IL-0514-28
Resistance to sagging					

(*) Film thickness, temperature, and relative humidity conditions influence the drying and repainting stages.

The technical data specified in this table may vary if the material is tinted

CONDITIONS OF APPLICATION

Substrate temp.	Min. +5ºC / Max. +35ºC
Room temperature	5ºC / 35ºC
Substrate Moisture Content	Dry surface, max. 10%

(*) Do not apply outdoors in case of rain forecast, under full midday sun, or on very humid days.

SURFACE PREPARATION

OVERVIEW

Before painting, surfaces must be clean, dry, and free of dust, grease, and dirt. Depending on the surface type, rust and other residues must be removed and, if necessary, a suitable primer must be applied. If the surface is very smooth, it may be necessary to sand it.

UNPAINTED WOODEN SURFACES

Carry out a light dry sanding to remove fibres. Isolate imperfections (knots, holes, grains) using a suitable insulator or puttying them with TKROM Plast plaster dust or synthetic putty. Apply one or two coats of the TKROM UNIVERSAL SEALING PRIMER TDS-6203 or the WATER-BASED TKROM SEALING PRIMER TDS-5915. Sand smoothly and apply the TKROM MULTI-SURFACE ACRYLIC ENAMEL.

PAINTED WOODEN SURFACES

Eliminate cracked and poorly adhered areas. Apply putty on imperfections. The TKROM MULTI-SURFACE ACRYLIC ENAMEL can be applied directly. Treat very absorbent or imperfect surfaces as unpainted wood surfaces.

UNPAINTED IRON SURFACES

Remove rust and rolling residues using spatulas or wire brushes. Degrease and clean to remove dust, grease, and dirt. For outdoor applications, apply one or two coats of the TKROM ANTI-CORROSION SYNTHETIC PRIMER TDS-6218. Then, apply the TKROM MULTI-SURFACE ACRYLIC ENAMEL. For surfaces in good condition and applications without risk of rusting (indoors), the TKROM MULTI-SURFACE ACRYLIC ENAMEL can be applied directly.

PAINTED IRON SURFACES

Remove paint coats that are not correctly adhered to the surface. Then, proceed as indicated for unpainted iron surfaces.

GALVANISED STEEL, ALUMINIUM, PVC, and MELAMINE SURFACES:

Degrease and clean the surface. The GLOSSY TKROM MULTI-SURFACE ACRYLIC ENAMEL can be applied directly. For highly polished or very smooth surfaces, a smooth sanding may be necessary to enhance adhesion.

MASONRY SURFACES

Repair possible imperfections on the wall surface using appropriate mortars or products. Remove any traces of tempera or lime paint and seal with the FIXATIVE TKROM F-4 TDS-5908 to even the application. In case of efflorescence or saltpetre, apply a diluted acid solution (Spirits of salt) (except on plaster), rinse with plenty of water, let it dry, and apply one coat of the FIXATIVE TKROM F-4 TDS-5908. Then, apply one or two coats of the TKROM MULTI-SURFACE ACRYLIC ENAMEL.

In case of doubts regarding the treatment of the above-mentioned surfaces or the painting of other specific materials not included in this sheet, please, consult the appropriate treatment with technical personnel accredited by the TKROM GROUP.

APPLICATION SYSTEM

SYSTEM	PRODUCT	THEORETICAL PERFORMANCE	DILUTION	COATS
PRIMER (WOOD)	TKROM UNIVERSAL SEALING PRIMER TDS-6203	6-8 m2/L coat	5-10 % TKROM SYNTHETIC SOLVENT 345 TDS-6914	1 or 2
	TKROM WATER-BASED SEALING PRIMER TDS-5915	6-8 m2/L coat	5% of water	1 or 2
PRIMER (IRON)	TKROM ANTI-CORROSION SYNTHETIC PRIMER TDS-6218	7-9 m2/L coat	5-10 % TKROM SYNTHETIC SOLVENT 345 TDS-6914	1 or 2
PRIMER (MASONRY)	TKROM FIXATIVE F-4 TDS-5908	14-18 m2/L.	1/4 of water	1
FINISH	TKROM MULTI-SURFACE ACRYLIC ENAMEL	10-14 m2/L coat	0-20 % of water, depending on the application system.	1 or 2

APPLICATION RECOMMENDATIONS

PROCESS	RECOMMENDATIONS
PREPARATION	Shake to homogenise product. The product can be used without diluting. If necessary, add water to achieve a good viscosity.
APPLICATION	The TKROM MULTI-SURFACE ACRYLIC ENAMEL can be applied using a brush, a short pile roller, a sponge roller, or a spray gun. It is recommended to use the minimum amount of necessary water for a levelled finish in the application conditions. •For roller application, dilution with up to 10% of water is recommended. •For brush application, dilution with up to 20% of water is recommended. •For spray-gun application, dilution with up to 20% of water is recommended. In order to obtain a uniform finish on large surfaces using a roller, it is recommended to use a short pile roller first and, immediately then, finish with a "0" pore sponge roller.
CLEANING	Utensils should be cleaned with water immediately after use.
MAINTENANCE	• Washing the surfaces within 20 days after the application of the product is not recommended. • The product is highly resistant to household cleaning products. To extend the durability of the product to the maximum, clean it with a soft cloth, water, and liquid neutral detergent. Cleaning with solvents is not recommended.

ADDITIONAL INFORMATION

SAFETY

For any information regarding safety issues in the use, storage, transport, and disposal of this product, users should consult the labelling and the latest version of the Safety Data Sheet, which contains the safety, ecological and toxicological information on the product.

Safety Data Sheet: MSDS-0514

LoW CODE: 08 01 12

STORAGE

The shelf-life of the product in the original unopened container at ambient temperatures not exceeding 30 ºC or reaching less than 5 ºC shall be 24 months from the manufacture date. Store in a cool and dry place and keep the original container well-closed, undamaged, and protected from frost and direct sunlight.

TARIFF HEADING

TARIC code: 3209 10 00

Note: Data contained in this technical sheet may be modified according to possible variations in formulation and, in any case, they express indicative values that do not exempt from carrying out the appropriate tests of product suitability for a specific work.

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