TKROM ECOLOGICO SM-70 SATINADO

PRODUCT DESCRIPTION

TKROM SM-70 ENVIRONMENT-FRIENDLY has been designed with the environment and the user's health in mind. It is made of an emulsion of an ethylene-vinyl copolymer and other special raw materials and using state-of-the-art techniques and processes that result in a high-quality, easy-to-use product that serves for a convenient painting process without unpleasant smells or emissions.

CONTAINER	SIZE
Plastic	5 kg
Plastic	12 L

TKROM ENVIRONMENTAL GUARANTEES

· No thinner content. Therefore, 0% emissions of organic thinners harmful to the atmosphere.
· No ammonia compound content.
· No heavy metal content.
· No toxic-noxious compound content.
· Total absence of unpleasant odours.
· Pure white non-yellowing colour.

ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

EU Ecolabel www.ecolabel.eu

ES-MU/044/00001

USES / SCOPE OF APPLICATION

- Perfect product for the decoration and protection of:
· Interiors of houses.
· Schools.
· Hotels.
· Asylums.
· Restaurants.
· Offices.
· Public premises.
· Daycare centres.
· Hospitals.
· The painted spaces can be used immediately after painting and drying, without noxious odours or vapours. It can be used even in the presence of particularly sensitive people, such as children and elderly people.

CHARACTERISTICS / BENEFITS

· Excellent ease of application.
· Very good levelling. Self-levelling.
· Good elasticity.
· Water vapour-breathable.
· Good washability.
· Very good whiteness and opacity.
· Odourless.
· Excellent coverage.

PRODUCT PROPERTIES

APPEARANCE OF THE DRY FILM	VALUE	STANDARD	REPORT
COLOUR	Blanco y colores s/muestra		
FINISH	SATINADO	UNE-EN 13300	IL-5308-01
GLOSS 60º	29-31	UNE-EN ISO 2813	IL-5308-01
CHROMATIC COORDINATES, L*	93 a 95	UNE 48073	IL-5308-02
CHROMATIC COORDINATES, a*	-1,10 a -0,90	UNE 48073	IL-5308-02
CHROMATIC COORDINATES, b*	-1,00 a -0,80	UNE 48073	IL-5308-02
BERGER WHITENESS	91-93	UNE 48073	IL-5308-02
OPACITY	95-97% / Clase 3	UNE-EN ISO 6504-3 / UNE-EN 13300	IL-5308-05

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PHYSICAL PROPERTIES	VALUE	STANDARD	REPORT
DENSITY	1,34 - 1,38 g/ml	UNE-EN ISO 2811-1	IL-5308-06
pH	8,5-9,2	ENSAYO INTERNO	
VISCOSITY (ISO)	8000-18000 (mPa.s) (20 rpm, husillo R6)	ASTM D 2196-10	

REFERRING TO ITS FORMULATION	VALUE	STANDARD	REPORT
CONTENT IN NON-VOLATILE MATERIAL (MASS)	56-58%	UNE-EN ISO 3251	IL-5308-10
CONTENT IN NON-VOLATILE MATERIAL (VOLUME)	40-42%	UNE-EN ISO 23811	
MAXIMUM ADMISSIBLE COV CONTENT	100 g/L	2004/42/II A clasificación	
MAXIMUM ADMISSIBLE COV CONTENT IN THE PRODUCT	0 g/L	2004/42/II A clasificación	
TVOC CONTENT	0,23 g/L	EN DIN ISO 17895	EUPINCA-11-2015
TVOC CONTENT (AFTER 72 HOURS)	0,277 mg/m³	Extracción GC/MS (DIN EN ISO 16000-6)	EUPINCA-11-2015
SVOC CONTENT (AFTER 72 HOURS)	n.d.	Extracción GC/MS (DIN EN ISO 16000-6)	EUPINCA-11-2015
AROMATICS CONTENT	< 0,014 g/L	EN DIN ISO 17895	EUPINCA-11-2015

APPLICATION PROPERTIES	VALUE	STANDARD	REPORT
THEORETICAL YIELD	10-16 m²/L	UNE-EN ISO 23811	
1st COAT THINNING	12- 15%		
2nd AND SUBSEQUENT COAT THINNING	0 - 5%		
THINNER	AGUA		

SPECIFIC PROPERTIES	VALUE	STANDARD	REPORT
WET RUB RESISTANCE	3-5 micras / Clase 1	UNE-EN ISO 11998 / UNE-EN 13300	IL-5308-17

MEDIUM CONDITIONS

CONDITION	VALUE
Substrate temperature	Between 5°C and 35°C.
Ambient temperature	Between 5°C and 35°C.
Substrate humidity	Dry medium surface with humidity < 10%
Dew point	The substrate must be at least 3º above the dew point to reduce the risk of product detachment or efflorescence of the coating on walls and floors due to condensation. In high ambient temperature and low relative humidity conditions, the probability of efflorescence in the finish increases.

MEDIUM PREPARATION

NON-PAINTED OR NEW SURFACES

· The surface should be consistent and firm, with no tendency to disintegrate or break. If it is necessary to smooth the substrate, repair it using suitable products from the TKROM PLAST range.

· To homogenize absorption and consolidate the surface, apply a coat of TKROM F1 PENETRATING FIXATIVE (TDS-5907), TKROM F4 FIXATIVE (TDS-5908) or TKROM PLIOTEC WATER-BASED FIXATIVE (TDS-5929).

· Next, apply TKROM ECOLOGICO SM-70 SATINADO

ALREADY PAINTED SURFACES

· Ensure that the medium is compact and firm.

· Carefully control the condition of the underlying paint; remove parts that are cracked and/or not perfectly adhered.

· Repair any imperfections, and proceed as instructed for new surfaces.

SPECIAL REMARKS FOR MEDIA IN GOOD CONDITIONS

Concrete:

· The surface should be dry, and should have cured in the air for the necessary time (minimum of 3 weeks).

· The substrate conditions must meet the requirements of concrete standard UNE-EN ISO 1504-2 in terms of coating performance.

Mortar:

· Use suitable products to remove efflorescence and alkalinity, such as treating with hydrochloric acid, diluted with 10 parts water.

Fibre cement:

· Remove alkalinity in accordance with the instructions for mortars.

Porous plaster:

· To prevent excessive absorption during subsequent painting, apply a coat of TKROM F4 FIXATIVE (TDS-5908).

Fragile plaster:

· Apply a coat of TKROM F1 PENETRATING FIXATIVE (TDS-5907) to strengthen the top coat, creating a lattice of resin that also enables transpiration, reduces absorption and facilitates subsequent painting.

Mortar and plaster on masonry:

· The substrate condition must meet mortar standard UNE-EN 998-2. According to the specifications of this standard, the adhesion value must be suited to that specified for the CE marking of the substrate manufacturer. It should never be less than 0.2 N/mm². The average value should be 0.3 N/mm².

Old paint:

· The quality of the old coatings is important.

· Adhesion should be no less than 0.7 N/mm², and the average sampling value should exceed 1 N/mm² (UNE-EN ISO 1504-2 standard).

· Thoroughly clean the entire surface with a jet of pressurised steam or water.

· For gloss paints, use mechanical equipment to open the pores, and proceed as for new surfaces.

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SPECIAL REMARKS FOR MEDIA IN POOR CONDITIONS

Blackening caused by mould and algae:

· Remove the stain and disinfect by vigorously scrubbing with household bleach. Next, treat the surface with TKROM REINFORCING CLEANER (TDS-5905) and then add a coat of TKROM SANITISING-SEALANT PRIMER (TDS-5906).

Nitre:

· Scrape with a brush or machine polish, before applying chemical treatment with hydrochloric acid, diluted with 10 parts of water. Next, treat with TKROM F1 PENETRATING FIXATIVE (TDS-5907).

Rust stains from wrought iron:

· Apply two coats of TKROM STAIN RESISTANT SUPERLITE (TDS-6612).

Old paint with insufficient adhesion:

· If adhesion is less than 0.7 N/mm² (UNE-EN ISO 1504-2 standard), use suitable mechanical equipment to remove the old paint. The underlying material must be properly prepared for the application of the new top coat. Proceed as with new substrate.

Uneven surfaces:

· Surfaces with damage such as peeling, cracking, chalking, blistering, etc. should be treated using mechanical equipment to completely remove existing paint.

Next, a coat of any of the following products should be applied: TKROM F1 PENETRATING FIXATIVE (TDS-5907), TKROM F4 FIXATIVE (TDS-5908) or TKROM PLIOTEC WATER-BASED FIXATIVE (TDS-5929), then proceeding as indicated for new surfaces.

For painting other specific materials not mentioned on this data sheet, seek advice on suitable treatment from a EUPINCA, S.A. approved technician.

APPLICATION SYSTEM

SYSTEM	PRODUCT	THEORETICAL YIELD	DILUTION	COATS
PRIMING	TKROM F1 PENETRATING FIXATIVE	14-18 m²/l	1/1 in water	1
PRIMING	TKROM F4 FIXATIVE	14-18 m²/l	1/4 in water	1
PRIMING	PLIOTEC FIXATIVE	10-14 m²/l	use normally	1
PRIMING	SATIN ECOLOGICAL SM-70	10-16 m²/l	12-15% water	1
FINISH	SATIN ECOLOGICAL SM-70	8-14 m²/l	Max. 5% water	2

APPLICATION PROCESSES

PROCESS	INSTRUCTIONS
PRODUCT PREPARATION	· Stir until the mixture is properly homogenised.
APPLICATION	· It can be applied with a brush, roller or spray gun. · The product can be applied with a brush, short hair roller or sprayed with an airless paint sprayer. · The second coat of the product should be applied perpendicular to the first coat to obtain ideal opacity. · To apply with an airless paint sprayer, use the following: pressure ~150 bar, nozzle ~0.38-0.53 mm, application angle ~50°-80°.
TOOL CLEANING	· Clean the tools with water immediately after use.

WAIT TIMES

Drying at 20°C and 65% relative humidity: The product is touch dry after 15-20 minutes and can be painted over after 6 hours. Completely dry in 10-20 days.

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SAFETY

Users should refer to the labelling and the latest version of the product's Safety Data Sheet for any information regarding safety issues related to use, storage, transport and waste disposal. The Safety Data Sheet contains all of the physical, environmental and toxicological data on the product, and information on all other issues related to this topic.

SAFETY SHEET	LER CODE	WASTE TYPE
MSDS-5308	08 01 12	NON-HAZARDOUS

STORAGE

When kept in its original unopened container at room temperatures below 30ºC and above 5ºC, the product will remain stable for 24 months from the date of manufacture.

It should be stored in a cool, dry place, in its original properly sealed and undamaged container, protected from frost and direct sunlight.

TARIFF HEADING

TARIC code: 3209 10 00

Note: The data presented in this technical data sheet may be modified based on possible changes in formation. In any case, values are provided for information purposes only, and the suitability of the product for a certain job should always be tested.

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