

TKROM SIL



PRODUCT DESCRIPTION

Pintura monocomponente de alta calidad, a base de silicato potásico, cargas, aditivos y pigmentos minerales, que petrifica con el sustrato mineral sobre el que se aplique, produciéndose una reacción de silicificación controlada, que proporciona una película muy resistente de aspecto mineral. Tiene gran capacidad de penetración y es de larga duración. No cuartea, e impermeabiliza y protege las superficies pintadas contra la agresividad de los agentes atmosféricos. Favorece el equilibrio termohigrométrico de los muros y paredes por la excelente transpirabilidad que le proporciona su estructura microcristalina originada por la precipitación de la sílice coloidal.

Complies with the DIN 18363 standard.

CONTAINER	SIZE
Plastic	4 L
Plastic	15 L

PRODUCT WARRANTY

Please check the conditions of the product warranty in the warranty table of our [Catalog](#).

USES / SCOPE OF APPLICATION

- Due to its particular characteristics along with the aspect of its finish, it is the perfect product for restoration of historic buildings or architecturally valuable buildings. It provides a beautiful mineral effect finish to new buildings.
- Outdoors and indoors.
- Façades.
- Stone.
- Restoration of historical buildings.
- Mineral media.
- Lime.
- Cement mortar.
- Concrete.

CHARACTERISTICS / BENEFITS

- Colours solid to light.
- Excellent permeability to water vapour, so it allows breathability of the medium.
- Waterproof against rain (prevents water leaking in).
- Chalking and yellowing resistant.
- Very good adhesive properties.
- Easy to apply.
- Previene la formación de mohos y verdines por su elevado carácter alcalino.
- It completely solidifies with the medium.
- Antiestático y de baja termoplasticidad, por lo que evita que las partículas de suciedad puedan adherirse con facilidad a su superficie.
- Ecológico: debido a su naturaleza, no contiene compuestos orgánicos volátiles. Cero emisiones.

PRODUCT PROPERTIES

APPEARANCE OF THE DRY FILM	VALUE	STANDARD	REPORT
COLOUR	Carta y colores s/muestra		
FINISH	G3 Mate	UNE-EN 1062-1	IL-5803-01 / 14_06819-1
GLOSS 85º	<5	UNE-EN ISO 2813	IL-5803-01 / 14_06819-1
OPACITY	93-95% / Clase 4	UNE-EN ISO 6504-3 / UNE-EN 13300	

PHYSICAL PROPERTIES	VALUE	STANDARD	REPORT
DENSITY	1,44-1,48 g/ml	UNE-EN ISO 2811-1	
pH	11-12	ENSAYO INTERNO	
VISCOSITY (ISO)	16000-18000 (mPa.s) (20 rpm, husillo R6)	ASTM D 2196-10	
PARTICLE SIZE DISTRIBUTION (GRAIN)	5-15 micras / S1 Fino	UNE-EN ISO 1524 / UNE-EN 1062-1	14_06819-1

REFERRING TO ITS FORMULATION	VALUE	STANDARD	REPORT
CONTENT IN NON-VOLATILE MATERIAL (MASS)	53-55%	UNE-EN ISO 3251	
CONTENT IN NON-VOLATILE MATERIAL (VOLUME)	32-34%	UNE-EN ISO 23811	
MAXIMUM ADMISSIBLE COV CONTENT	40 g/L	2004/42/II A clasificación	
MAXIMUM ADMISSIBLE COV CONTENT IN THE PRODUCT	0 g/L	2004/42/II A clasificación	

APPLICATION PROPERTIES	VALUE	STANDARD	REPORT
THEORETICAL YIELD	6-8 m ² /L - 4-6 m ² /kg a 50µm secas	UNE-EN ISO 23811	
DRY FILM THICKNESS	73 micras	UNE-EN 1062-1	14_06819-1
1st COAT THINNING	50-100%		
2nd AND SUBSEQUENT COAT THINNING	0-10%		
THINNER	TKROM SIL IMPRIMACION C		

SPECIFIC PROPERTIES	VALUE	STANDARD	REPORT
WET RUB RESISTANCE	10-12 micras	UNE-EN ISO 11998	
STEAM PERMEABILITY (STEAM TRANSMISSION SPEED)	1508,82 g/m2. dia	UNE-EN ISO 7783-2	14_06819-1
STEAM PERMEABILITY (EQUIVALENT AIR LAYER THICKNESS)	0,01 m	UNE-EN ISO 7783-2	14_06819-1
LIQUID WATER PERMEABILITY	0,030 kg/(m2.h0,5)	UNE-EN 1062-3	14_06819-1
CARBON DIOXIDE PERMEABILITY (DIFFUSION FLOW)	63,13 g/m2. dia	UNE-EN 1062-6	14_06819-1
CARBON DIOXIDE PERMEABILITY (DIFFUSION EQUIVALENT)	4 m	UNE-EN 1062-6	14_06819-1
CLASSIFICATION FOR COATING MATERIALS INTENDED FOR EXTERIOR MASONRY AND CONCRETE	G3 E2 S1 V1 W3 A0 C0	UNE-EN 1062-1	14_06819-1

MEDIUM CONDITIONS

If outside, do not apply if rain is forecast, in strong midday sun or on very humid days.



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 3° 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

- Cement, lime, concrete, plaster (inside) etc. The wall surface to be painted must be constructed at least 28 days before painting to ensure its natural neutralisation, as excessive calcium alkalinity on the surface will prevent TKROM SIL from penetrating in depth, and a layer of paint may form that could come away.
- Clean the entire surface using mechanical high pressure water jet equipment
- Before painting, carefully check the surface to ensure that it is in perfect condition.
- The surface should be consistent and firm, with no tendency to disintegrate or break.
- If any mould or mildew is present, treat the surface first with TKROM Reinforcing Cleaner TDS-5905, then add a coat of primer
- TKROM Sanitiser-Sealant TDS-5906.
- To homogenize absorption and consolidate the surface, apply one coat of TKROM SIL C Primer for cement TDS-5801. On plaster (indoors), apply TKROM SIL Y Primer for plaster TDS-5802.

Next, apply two coats of TKROM SIL (with an interval of 24 hours between the two coats), diluted as follows:

LIGHT COLOURS:

1st coat:

Dilute TKROM in equal parts with TKROM SIL primer for cement (1:1)

2nd coat:

- Apply TKROM SIL, undiluted, or diluted by 10% to 15%, with TKROM SIL cement primer.

MEDIUM AND INTENSE COLOURS:

1st coat:

Dilute one part TKROM SIL with 1 part TKROM SIL cement primer and one part water (1:1)

2nd coat:

- Apply TKROM SIL, undiluted, or diluted by 10% to 20%, with TKROM SIL cement primer.

ALREADY PAINTED SURFACES

- On surfaces painted with silicate or lime-based paints, carefully remove dust, dirt and any efflorescence, and apply as indicated for new surfaces.
- On surfaces painted with damaged plastic paint (indoors), clean any dust, dirt and possible efflorescence and apply as indicated for new surfaces.
- In the case of surfaces painted with oil-based products, chlorinated rubber, synthetic paints, etc., remove these products completely to expose the mineral facing, then proceed as indicated for new surfaces.

tkrom[®]

APPLICATION PROCESSES

PROCESS	INSTRUCTIONS
PRODUCT PREPARATION	· Stir until the mixture is properly homogenised.
APPLICATION	· It can be applied with a brush, roller or airless paint sprayer. · 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 abundant water immediately after use.

WAIT TIMES

Drying at 20°C and 65% relative humidity: The product is touch dry in 2 hours and can be painted over after 24 hours.

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-5803	08 01 12	NON-HAZARDOUS

STORAGE

When kept in its original unopened container at room temperatures below 30°C and above 5°C, the product will remain stable for 12 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 90 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.

