# TKROM ESMALTE EPOXI 2C


## PRODUCT DESCRIPTION

Two-component enamel, from epoxy-polyamidoamine resins and high-solidity pigments. After drying, it forms a bright, hard, elastic film, highly resistance to outdoor conditions (see product application data) and diluted solutions of acids and alkali, which makes it particularly suitable for use in indoor paving.

## USES / SCOPE OF APPLICATION

· High chemical and mechanical resistance finish enamel that provides excellent protection against carbonation in indoor concrete or cement surfaces, both horizontal and vertical. Its great resistance to anti-corrosion cycles makes it specially suitable for the treatment of metal surfaces..
· Metal.
· Indoor floors.

| CONTAINER | SIZE |
|---|---|
| Metal | 12 kg (A), 3 kg (B) |

## CHARACTERISTICS / BENEFITS

· Very good adhesive properties.
· High hardness.
· Elasticity.
· Resistant to chemical agents.
· Abrasion and impact resistance.
· High lifetime without hardening in the container (8 hours).
· Can be painted over after a minimum of 12 hours, and within 24 hours..
· Safe to pass by after 48 h.
· Anti-dust.

## PRODUCT PROPERTIES

| APPEARANCE OF THE DRY FILM | VALUE | STANDARD | REPORT |
|---|---|---|---|
| COLOUR | Blanco y colores s/muestra | | |
| FINISH | Brillante | | |

| PHYSICAL PROPERTIES | VALUE | STANDARD | REPORT |
|---|---|---|---|
| DENSITY (COMPONENT A) | 1,53-1,57 g/ml | UNE-EN ISO 2811-1 | IL-6709-06 |
| DENSITY (COMPONENT B) | 0,90-0,94 g/ml | UNE-EN ISO 2811-1 | |
| VISCOSITY (COMPONENT A) | 70-80 KU | ENSAYO INTERNO | |
| VISCOSITY (COMPONENT B) | 100-200 segundos (Copa Ford nº 4) | ENSAYO INTERNO | |

| REFERRING TO ITS FORMULATION | VALUE | STANDARD | REPORT |
|---|---|---|---|
| FIXED VEHICLE IDENTIFICATION | Resina Epoxi basada en Bisfenol A / Aducto de Poliamidoamina | | |
| CONTENT IN NON-VOLATILE MATERIAL (MASS) COMP A | 77-79% | UNE-EN ISO 3251 | IL-6709-10 |
| CONTENT IN NON-VOLATILE MATERIAL (VOLUME) COMP A | 58-60% | UNE-EN ISO 23811 / UNE 48090 | |
| MAXIMUM ADMISSIBLE COV CONTENT | 500 g/L (A+B) | 2004/42/II A clasificación | |
| MAXIMUM ADMISSIBLE COV CONTENT IN THE PRODUCT | 500 g/L (A+B) | 2004/42/II A clasificación | |

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| APPLICATION PROPERTIES | VALUE | STANDARD | REPORT |
|---|---|---|---|
| THEORETICAL YIELD | 7-9 m²/L - 4-6 m²/kg a 70µm secas | UNE-EN ISO 23811 | |
| THINNING | 5-20% | SEGÚN SISTEMA APLICACIÓN | |
| THINNER | TKROM Disolvente 370 Epoxi-Estufa | | |

| SPECIFIC PROPERTIES | VALUE | STANDARD | REPORT |
|---|---|---|---|
| CLASSIFICATION ACCORDING TO FIRE PERFORMANCE | Bfl-s1 | UNE-EN 13501-1:2007 + A1 | 2714T14 |

## MEDIUM CONDITIONS

If outside, do not apply if rain is forecast, in strong midday sun or on very humid days. Despite having unbeatable physical-chemical resistance when used outdoors, it should be taken into account that chalking will occur on the surface and that colour and gloss cannot be guaranteed. Therefore, TKROM 2C Polyurethane Enamel should be used on high performance outdoor top coats, in any of its versions TDS-6111, TDS-6802 and TDS-6113.

## MEDIUM PREPARATION

GALVANISED STEEL AND ALUMINIUM SURFACES

· Degrease and clean the surface. Apply a coat of Wash Primer, Shop Primer or TKROM 2C Epoxy GLASS Primer TDS-6704. After the appropriate period of time, apply one or two coats of TKROM 2C EPOXY ENAMEL.

NON-PAINTED IRON OR STEEL SURFACES

· Use appropriate metal spatulas or brushes to remove any rust and rolling residues; degrease and clean away any dust and dirt, and sand carefully to remove all rust residues from the surface; if necessary, use sand blasting down to Sa 2 1/2. Next, apply one or two coats of TKROM Anti-corrosion Epoxy Primer TDS-6702. After the established time, apply one or two coats of TKROM 2C EPOXY ENAMEL.

PAINTED IRON OR STEEL SURFACES

· Remove layers of paint that are not perfectly bonded and then proceed as indicated for unpainted iron surfaces.

CONCRETE OR CEMENT SURFACES

· It is important to consider the moisture content of the support, which must be lower than 5%. This moisture can come from three possible sources, the first if the concrete curing process has not been completed (remember that this takes a minimum of three weeks), the second from cleaning by wetting the surface - two days of drying time will be sufficient -; and the third, and least controllable, is the water table, which will rise and lower depending on rainfall, nearby water courses and, in general, environments through which flows of water are channelled, which could affect the support. In the last case, it will be difficult to solve the problem. Applying the product despite the problems described above will result in surface glazing, which may include chalking, tackiness due to the migration of the catalyst to the surface, and blisters of considerable diameter. Once the problem of moisture in the support has been solved, act as follows

## APPLICATION PROCESSES

| PROCESS | INSTRUCTIONS |
|---|---|
| PRODUCT PREPARATION | · Stir until the product and catalyst are properly homogenised.<br>· Mix in a proportion of 4:1 by weight (base:catalyst), stir and wait for 10 minutes before application to allow the activation of the reaction to begin.<br>· Use the mixture within 8 hours at 20°C or 2 hours at 40°C.<br>· Stir again at regular intervals.<br>· Adjust viscosity.<br>· Evaporation will take place during prolonged application, so the viscosity will have to be adjusted. |
| APPLICATION | · It can be applied with a brush, roller, spray gun or airless paint sprayer.<br>· If applying with a brush or roller, dilute by 0%-10% using TKROM 370 Epoxy Thinner TDS-6919.<br>· If applying with a spray gun, dilute to a viscosity of 28-32 seconds in a No. 4 Ford cup, with 10-20% of the same thinner.<br>· If applying with an airless paint sprayer, dilute to a viscosity of 60 seconds in a No. 4 Ford cup, with 5-10% of the same thinner. |
| TOOL CLEANING | · All tools that are used must be cleaned immediately after use with any of the recommended thinners, or with TKROM 302 UNIVERSAL THINNER (TDS-6961). |

## WAIT TIMES

Drying at 20°C and 65% relative humidity: The product is dust free dry in 45 minutes. Tack free in 2-3 hours. Through dry 24 hours. Completely dry in 7 days. It can be painted over after 12 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-6759 | 08 01 11 | HAZARDOUS |

## STORAGE

When kept in its original unopened container at room temperatures below 30ºC and above 5ºC, 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: 3208 90 91

**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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