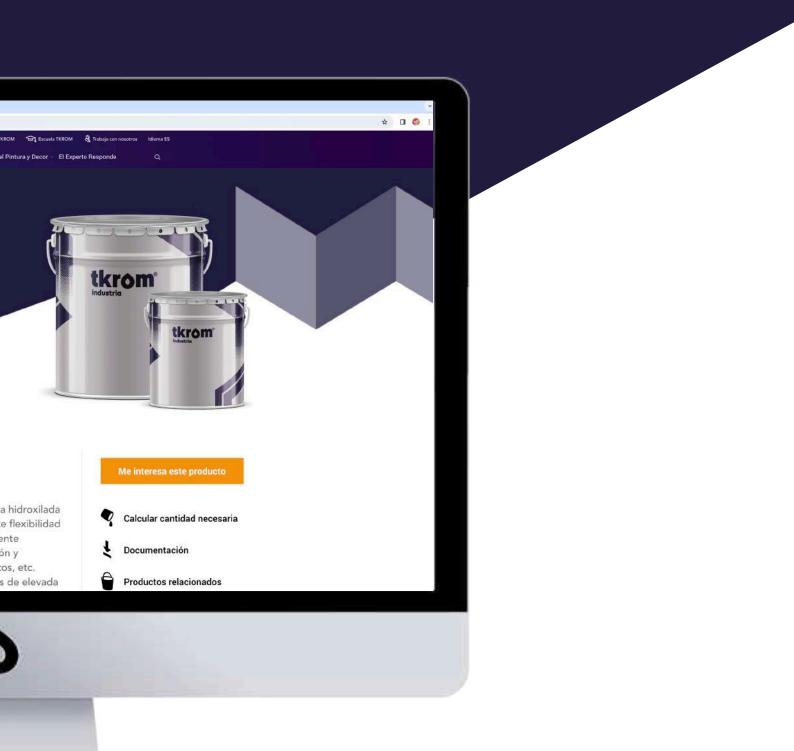


Esmalte de poliuretano de dos componentes a base de resina acrílic e isocianato alifático, de acabado brillante, máxima dureza, excelent y alta resistencia química y a la abrasión. Capa de acabado de excele prestaciones en sistemas anticorrosivos epoxi-poliuretano. Reparacio restauración de cuartos de baño, cocinas, baldosas, electrodoméstic Adecuado tanto para ambientes rurales, como marinos o industriale

WEB TKROM PINTURAS

- •Find out about all our promotions and new products
- •Easily access all the technical documentation
- •Consult related products
- Ask our experts directly
- •Locate the nearest points of sale
- •And many more things.





Visit us at **tkrom.com**

CORROSION? IT'S ALL A MATTER OF OF TIME.

Corrosion is a chemical reaction that affects all metallic materials and involves three factors: **the manufactured part, the environment and water.** A major industrial problem that can cause accidents, as well as representing a high cost of repair and maintenance.



From **tkrom** we want to help you understand the regulations governing the different anti-corrosion systems, in order to improve the quality and value of your projects through the correct use of paint as a protective layer:

Regulations
 Systems
 Products

In the time it takes you to read this sentence, a tonne of steel will have corroded in Spain and will need to be replaced or repaired. Through this guide you will learn everything you need to successfully tackle industrial projects that require approved, high performance anticorrosion systems.





KNOW THE UNE-EN-ISO 12944 STANDARD

There are different ways to protect steel structures from corrosion. The UNE-EN ISO 12944 "Paints and varnishes: Corrosion protection of steel structures with protective paint systems" takes into account all factors that are important for adequate corrosion protection.

FACTOR 1: CORROSION LEVEL

The different levels of corrosivity that a structure may suffer in its final location are defined according to a series of factors such as humidity, temperature, exposure to ultraviolet radiation, exposure to contaminants (chemical substances), as well as the nature and state of immersion of the installation.

In the light of these environmental factors, the standard makes the first major classification of categories based on the rate of mass loss of the metal surface:



In order to recommend a corrosion protection system we have to answer 4 questions:

What level of corrosion will the structure suffer?

What is the condition of the structure?

What material is it made of?

How durable is the chosen system expected to be?



	C1 VERY LOW	C2 LOW	C3 HALF	C4 HIGH	C5 VERY HIGH	CX EXTREME
OUTSIDE		Regions rural/ Low Polluted Atmospheres	Industrial and urban environments with medium level of pollution	Medium salinity industrial and coastal areas	Industrial areas with high humidity and aggressive environment	Offshore
INSIDE		Unheated buildings (condensation) warehouses, sports halls	Industries with	Chemical plants, swimming pools, ship repair yards	Buildings and areas of intensive pollution	structures





FACTOR 2: STRUCTURAL MATERIAL

To recommend a painting system, we must first know what material the structure is made of:

- Unalloyed steel: Carbon steel (high adhesion)
- Zinc-alloyed steel: Galvanised steel (low adhesion)
- Steel alloyed with chromium and nickel: Stainless steel
- Aluminium

Unlike other materials, aluminium will not be protected with an anti-corrosion system because by its nature it is "self-protecting". When aluminium oxidises, it generates aluminium oxide which is transparent and is deposited as a surface layer on a microscopic level. Aluminium oxide is also extremely resistant.

FACTOR 3: SYSTEM DURABILITY

The durability of the system is a technical consideration that helps us to properly manage maintenance plans, the standard establishes the following classification based on its durability:

- ma (very high) More than 25 years
- **a (high)** From 15 to 25 years
- m (medium) From 7 to 15 years
- **b (low)** Up to 7 years









FACTOR 4: STATE OF THE MATERIAL

The UNE-EN-ISO 8501-1 standard lists the different degrees of oxidation of steel. It must be taken into account whether the steel has been in its final location for some time or whether it has just been manufactured. The 4 possible degrees of oxidation listed in the standard are:

GRADEA

The oxidation process begins, as can be seen in the picture, the steel surface is completely covered with mill scale or calamine with traces of rust.

GRADE B

Degradation by ultra-violet rays occurs. The steel surface has already begun to corrode and the phase of detachment of the mill scale or calamine begins. 2 to 4 months weathering in moderately corrosive environments.

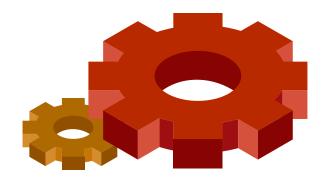
GRADEC

Corrosion has already caused all of the mill scale to be removed from the steel surface. No pitting is yet visible or detectable to the naked eye. Weathered in moderately corrosive environments for approximately 1 year.



GRADED

Corrosion has caused the scale to flake off and pitting is visible to the naked eye. Weathered in moderately corrosive environments for approximately 3 years.







FACTOR 5: SURFACE PREPARATION

There are different standardised techniques for rust removal. These include different degrees and techniques of preparation of the metal surface, being "Sa" **an abrasive sandblasting**, "St" **a manual cleaning with a wire brush and "Sp" a mechanical cleaning with a wire brush:**

	Standard grade of surface preparation with abrasi- ve blasting methods.
ISO Sa3	Complete removal of rust, scale, old paint and any foreign matter. Blast cleaning until the metal is white.
ISO Sa2	Abrasive blasting until the metal is almost white, so that at least 95% of the total surface is free of any visible residue.
ISO Sa2	Blasting until at least 2/3 of the total surface is free of all visible resi- dues. Carefully blast until almost all mill scale, rust and foreign matter is removed.
ISO Sa1	Light blasting. Loose lamination layer, rust and loose particles are re- moved.
	Standard grade of surface preparation with manual cleaning.
ISO St3	Scraping with hard metal scrapers, brushing with a wire brush, should be done in one direction and then in a perpendicular direction. The sur- face should show a pronounced metallic appearance.
ISO St2	Careful scraping with a hard metal scraper and brushing with a wire brush. Once the dust has been removed, the surface should have a me-tallic appearance.
	Standard degree of surface preparation with ma- nual cleaning by mechanical means.
SSPC- Sp11	Mechanical scraping with a wire brush should be done in one direction and then in a perpendicular direction. The surface should show a pro- nounced metallic appearance.
	Standard grade of surface preparation by blasting
	To clean and roughen metallised coatings on the surface, or to remove the surface layer of a poorly adhering coating. For sweep blast clea- ning, blast cleaning abrasives of the shot blast type are used.





FACTOR 5: SURFACE PREPARATION

The UNE-EN-ISO 8501-1 standard determines the degrees of surface preparation,. In most cases it is not necessary to reach Sa3 to apply a new durable protection system.

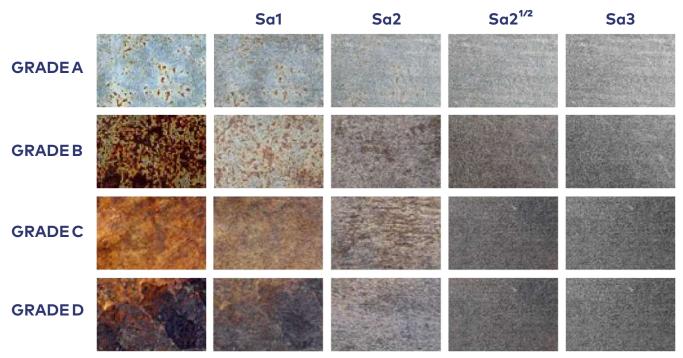


Table valid for carbon steels.



By analysing the final location of the structure, knowing the nature of the material, the type of preparation and the desired durability, we can correctly select the system to be applied.

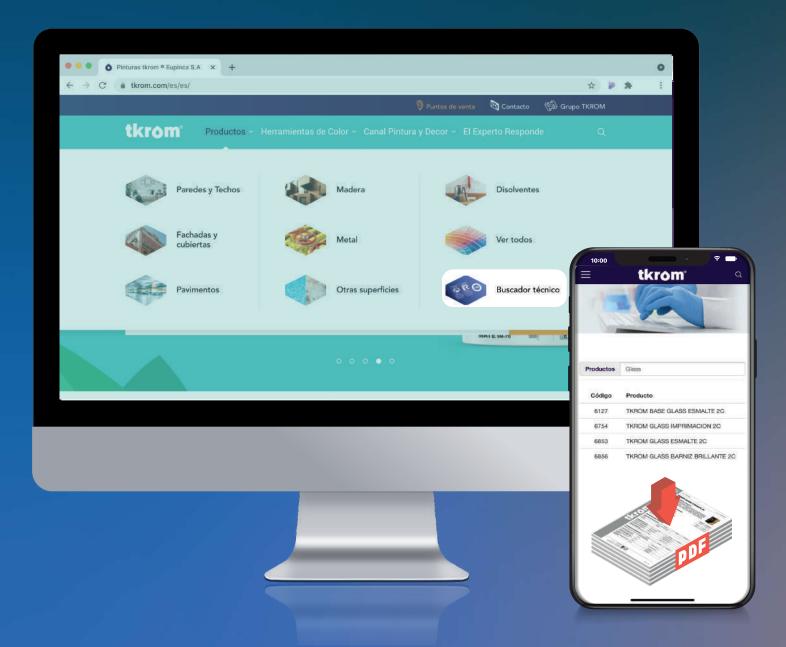
"





ALL THE TECHNICAL AND SAFETY DATA SHEETS CLICK IN ONE PLACE.

Find the technical data sheets of our products from the technical search engine on tkrom.com.





_ SUPPORT - PRIMER COAT - FINISHED LAYER

> SUPPORT PRIMER COAT INTERMEDIATE LAYER FINISHED LAYER

ADAPTED SYSTEMS TO EACH PROJECT AND MATERIAL

The right combination of binders between coats and the correct application of thicknesses will determine the durability of the anticorrosive system. Given the high technical component, it is essential to follow the drying and recoating times given in the technical data sheets of the products applied.

From **tkrom** we provide professionals with a detailed guide to application systems for different corrosive environments and substrates (carbon steel and galvanised steel).

IMPORTANT

The **number of coats** described in this guide will depend largely on the **application thicknesses** according to the **dilution levels and application methods used.** The systems indicated are estimates for a conventional, no sag application.

Therefore, although the number of coats may vary depending on the application variables indicated, **the microns shown for primer and total system thicknesses should never be less than those indicated in the tables** so that the microns of dry film thickness required to achieve the estimated durability for each system are applied.

С2 ваја The following table shows the different **systems available at tkrom** that comply with ISO 12944 in the **corrosivity category C2 for** <u>carbon steels</u> with an oxidation degree A, B or C, and with a surface preparation Sa2.

SYSTEM NO.		C2.01	C2.02	C2.03	C2.04	C2.05	C2.06	C2.07	C2.08
	SINTÉTICA ANTICORROSIVA TDS-6218					\bigcirc	0	0	0
	SECADO RÁPIDO ANTICORROSIVA TDS-6215					\bigcirc	\bigcirc	\bigcirc	0
1ST PRIMING	EPOXI ANTICORROSIVA 2C TDS-6752	\bigcirc	\bigcirc	\bigcirc	\bigcirc			\bigcirc	0
TPRI	EPOXI HS ANTICORROSIVA 2C TDS-6760	\bigcirc	\bigcirc	\bigcirc	\bigcirc			\bigcirc	0
1 S	EPOXI RICA EN ZINC 2C TDS-6753	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc		
	LAYERS	1 a 2	1 a 2	2 a 4	1 a 2	2 a 3	2	1	1
	NDFT en µm	40 a 80	40 a 100	60 a 160	60 a 80	60 a 120	80 a 100	60	60 a 80
	ESMALTE SINTÉTICO CON POLIURETANO TDS-6325					\bigcirc	0	\bigcirc	0
	ESMALTE SECADO RÁPIDO TDS-6304					\bigcirc	\bigcirc	\bigcirc	0
D N	ESMALTE ANTIOXIDANTE TDS- 6401					\bigcirc	\bigcirc	\bigcirc	0
NISH	ESMALTE FORJA ANTIOXIDANTE TDS-6402/ 6406					\bigcirc	\bigcirc	\bigcirc	0
2ND FINI	ESMALTE GLASS 2C* TDS-6853	\bigcirc	\bigcirc	\bigcirc	\bigcirc			\bigcirc	
5	ESMALTE POLIURETANO 2C* TDS-6852/ 6855	\bigcirc	\bigcirc	\bigcirc	\bigcirc			\bigcirc	
	LAYERS	0 a 1	0 a 2	0 a 3	3	0 a 2	2 a 3	0	2 a 3
	NDFT en µm	0 a 40	0 a 60	0 a 100	120 a 140	0 a 60	80 a 100	0	80a100
-	LAYERS	2	2 a 3	4 a 5	4 a 5	3 a 4	4 a 5	1	3 a 4
TOTAL	NDFT en µm	80	100	160	200	120	180	60	160
F	DURABILITY								

tkrom[®]

EXAMPLE FIRE ESCAPE

- Degree of protection: C2.
 Material: Carbon steel.
 Environment: Rural area with low levels of pollution.
- •Surface preparation: SA2 ^{1/2}
- •Durability: High

MING	SECADO RÁPIDO ANTICORROSIVA TDS-6215		
IST PRIMING	LAYERS	2	
15	NDFT en µm	80	
2ND FINISHING	ESMALTE SECADO RÁPIDO TDS-6304		
O FINI	LAYERS	2	
2NI	NDFT en µm	80	
	LAYERS	4	
тотаl	NDFT en µm	160	
	DURABILITY		









C3 MEDIA The following table shows the different systems available at tkrom that comply with ISO 12944 in the corrosivity category C3 for carbon steels with an oxidation degree A, B or C, and with a surface preparation Sa2. $\frac{1}{2}$

SY	STEM NO.	C3.01	C3.02	C3.03	C3.04	C3.05	C3.06	C3.07	C3.08	C3.09	C3.10
	SINTÉTICA ANTICORROSIVA TDS-6218					0	\bigcirc	0	0	\bigcirc	0
65	SECADO RÁPIDO ANTICORROSIVA TDS-6215	•				\bigcirc	0	0	0	\bigcirc	0
MIN	EPOXI ANTICORROSIVA 2C TDS-6752	\bigcirc	\bigcirc	0	\bigcirc				0	\bigcirc	0
1ST PRIMING	EPOXI HS ANTICORROSIVA 2C TDS-6760	\bigcirc	\bigcirc	0	\bigcirc				0	\bigcirc	0
1 S1	EPOXI RICA EN ZINC 2C TDS-6753	\bigcirc	0	0	\bigcirc	\bigcirc	\bigcirc	0			
	LAYERS	2 a 3	2 a 4	2	2	2	2 a 3	2 a 3	1	1	1
	NDFT en µm	80 a 100	60 a 160	60 a 80	60 a 80	80 a 120	80 _a 160	80 a 160	60	60 a 80	60a80
	ESMALTE SINTÉTICO CON POLIURETANO TDS-6325					0	\bigcirc	0	\bigcirc	\bigcirc	0
	ESMALTE SECADO RÁPIDO TDS-6304					\bigcirc	0	0	0	\bigcirc	0
UNG	ESMALTE ANTIOXIDANTE TDS-6401					\bigcirc	0	0	\bigcirc	\bigcirc	0
NISH	ESMALTE FORJA ANTIOXIDANTE TDS-6402/6406					\bigcirc	\bigcirc	0	\bigcirc	\bigcirc	0
2ND FINISHING	ESMALTE GLASS 2C * TDS-6853	\bigcirc	0	0	\bigcirc				\bigcirc		
2N	ESMALTE POLIURETANO 2C* TDS-6852/ 6855	\bigcirc	\bigcirc	0	\bigcirc				\bigcirc		
	LAYERS	0 a 1	0 a 2	3 a 4	5	0 a 1	1 a 3	2 a 4	0	2	3
	NDFT en µm	0 a20	0 a 100	120 a 140	180 a 200	0 a 40	20 100	80 a 160	0	80 a 100	120 a 140
-	LAYERS	3	4	5 a 6	7	2 a 3	4 a 5	5 a 6	1	3	4
тота	NDFT en µm	100	160	200	260	120	180	240	60	160	200
F	DURABILITY	_d()				[]					I I

* In all applications intended for interior use, the Polyurethane finish products indicated may be substituted by the Epoxy 2C Enamel finish (TDS-6759) with identical micronage. **NDFT**: Nominal dryfilm thickness.



tkrom[®]

EXAMPLE OUTDOOR PIPELINES

Degree of protection: C3.
Material: Carbon steel.
Environment: Areas with medium level of contamination.
Surface preparation: SA2
Durability: High

IST PRIMING	SYNTHETIC ANTI-CORROSION TDS-6218	
T PRI	LAYERS	2
1 S.	NDFT en µm	80
2ND FINISHING	SYNTHETIC ENAMEL WITH POLYURETHANE TDS-6325	
JINI	LAYERS	3
2ND	NDFT en µm	120
	LAYERS	5
тотаl	NDFT en µm	200
	DURABILITY	







The following table shows the different systems available at tkrom that comply with ISO 12944 in the corrosivity category C4 for <u>carbon steels</u> with an oxidation degree A, B or C, and with a surface preparation Sa2. 1/2

S١	STEM NO.	C4.01	C4.02	C4.03	C4.04	C4.05	C4.06	C4.07	C4.08	C4.09	C4.10	C4.11
	SINTÉTICA ANTICORROSIVA TDS-6218				0	0	0	0	0	0	0	0
	SECADO RÁPIDO ANTICORROSIVA TDS-6215				0	0	0	0	0	\bigcirc	0	0
1ST PRIMING	EPOXI ANTICORROSIVA 2C TDS-6752	0	0	0		•			0	0	0	0
T PRI	EPOXI HS ANTICORROSIVA 2C TDS-6760	0	0	0		•			0	0	0	0
1S	EPOXI RICA EN ZINC 2C TDS-6753	0	0	0	0	0	0	0				
	САРА	1 a 3	1 a 2	1 a 2	2	2 a 3	2 a 3	2 a 4	1	1	1	1
	NDFT en µm	60 a 160	60 a 80	60 a 80	80 a 120	80 a 160	80 a 160	80 a 240	60	60 a 80	60 a 80	60 a 80
EDIA-	EPOXI HM INTERMEDIA 2C TDS-6755	0	0	0	0	0			0	\bigcirc		•
2ND INTERMEDIA- TE	EPOXI ALTO ESPESOR 2C TDS-6762	0	0	0	0	0			0	\bigcirc		
	САРА	0	0	0	0	0	0 1	0 1	0	0	1	1
2ND	NDFT en µm	0	0	0	0	0	80 a 120	100 a 180	0	0	100	100 a 180
	ESMALTE SINTÉTICO CON POLIURETANO TDS-6325				0	0	0	0	0	0	0	0
	ESMALTE SECADO RÁPIDO TDS-6325				0	0	0	0	\bigcirc	0	\bigcirc	0
UNG	ESMALTE ANTIOXIDANTE TDS-6401				0	0	0	0	0	0	0	0
3RD FINISHI	ESMALTE FORJA ANTIOXIDANTE TDS-6402/ 6406				0	0	0	0	0	0	0	0
SRD F	ESMALTE GLASS 2C* TDS-6853	0	0	0		•			0			
	ESMALTE POLIURETANO 2C* TDS-6852	0	0	0					0			
	CAPA	0 a 2	3 a 4	4 a 5	0 a 1	1 a 2	1 a 2	1 a 2	0	2	1	1 a 2
	NDFT en µm	0 a 100	120 140	180 a 200	0 a 40	20 a 100	40 a 80	40 a 80	0	80 a 100	40	40 a 80
-	САРА	3	5	6	2 a 3	4	4 a 5	4 a 5	1	3	3	3 a 4
TOTAL	NDFT en µm	160	200	260	120	180	240	300	60	160	200	260
	DURABILITY				0			-••1				1

* In all applications intended for interior use, the Polyurethane finish products indicated may be substituted by the Epoxy 2C Enamel finish (TDS-6759) with identical micronage. **NDFT**: Nominal dry film thickness.



EXAMPLE COMMUNICATION TOWER

- •Degree of protection: C4.
- •Material: Carbon steel.
- •Environment: Industrial area.
- •Surface preparation: SA2
- •Durability: High

1ST PRIMING	EPOXY ANTICORROSIVE 2C TDS-6752	
T PRI	LAYERS	2
15	NDFT en µm	100
2ND INTERMEDIA- TE	EPOXY HM INTERMEDIATE 2C TDS-6755	
INTER	LAYERS	1
2ND	NDFT en µm	100
3RD FINISHING	ENAMEL POLYURETHANE 2C TDS-6852	
LINI	LAYERS	1
3RD	NDFT en µm	40
	LAYERS	4
тотаl	NDFT en µm	240
	DURABILITY	1





The following table shows the different systems available at tkrom that comply with ISO 12944 in the corrosivity category C5 for carbon steels with an oxidation degree A, B or C, and with a surface preparation Sa2. $_{1/2}^{1/2}$

	S	STEM NO.	C5.01	C5.02	C5.03	C5.04	C5.05	C5.06	C5.07	C5.08
		EPOXI ANTICORROSIVA 2C TDS-6752	•				0	\bigcirc	\bigcirc	0
MING		EPOXI HS ANTICORROSIVA 2C TDS-6760					\bigcirc	\bigcirc	\bigcirc	0
1ST PRIMING		EPOXI RICA EN ZINC 2C TDS-6753	\bigcirc	\bigcirc	\bigcirc	\bigcirc				
S		LAYERS	2 a 3	2 a 3	2 a 4	2 a 4	1	1	1	1
		NDFT en µm	80 a 160	80 _a 160	80a 240	80a200	60 a 80	60 a 80	60 a 80	60 a 80
2ND INTERMEDIATE		EPOXI HM INTERMEDIA 2C TDS-6755	\bigcirc				0			
rerme		EPOXI ALTO ESPESOR 2C TDS-6762	\bigcirc				\bigcirc			
		LAYERS	0	0 a 1	0 a 1	1	0	0 a 1	1	1
2ND		NDFT en µm	0	80 a 120	100 a 180	100 a 240	0	0 a 100	100 a 160	100 a 220
5 N		ESMALTE POLIURETANO 2C* TDS-6852								
FINISHING		ESMALTE GLASS 2C* TDS-6853								
L Q		LAYERS	1 a 2	1 a 2	1 a 2	1 a 2	2	1 a 3	1 a 2	1 a 2
3RD		NDFT en µm	20 a100	40 a 80	40 a 80	40 a 80	80a100	40 a 120	40 a 80	40 a 80
-		LAYERS	4	4 a 5	4 a 6	4 a 7	3	3 a 4	3 a 4	3 a 4
TOTAL		NDFT en µm	180	240	300	360	160	200	260	320
F		DURABILITY				1				1

* In all applications intended for interior use, the Polyurethane finish products indicated may be substituted by the Epoxy 2C Enamel finish (TDS-6759) with identical micronage. **NDFT**: Nominal dry film thickness.



tkrom[®]

EXAMPLE SEAPORT STRUCTURE

•Degree of protection: C5.

Material: Carbon steel.
Environment: Industrial area with high humidity and aggressive environment. (Ground areas)

•Surface preparation: SA2 •Durability: Very High

1ST PRIMING	EPOXY RICH IN ZINC 2C TDS-6753	
T PRI	LAYERS	1
3	NDFT en µm	80
2ND INTERMEDIA- TE	EPOXY HIGH THICKNESS 2C TDS-6762	
INTER TE	LAYERS	1
2ND	NDFT en µm	160
3RD FINISHING	ENAMEL POLYURETHANE 2C TDS-6852	
	LAYERS	2
3RI	NDFT en µm	80
	LAYERS	4
тотаl	NDFT en µm	320
	DURABILITY	1





Unlike carbon steel, galvanised steel by its very alloy contains zinc on the surface, which acts as a cathodic protection allowing the use of thinner corrosion protection systems.





The following table shows the different **systems available at tkrom** that comply with ISO 12944 in the **corrosivity category C2 for** <u>galvanised steels</u> by surface preparation by blasting, sweeping and/or degreasing.

BAJA

	SYSTEM NO.	G2.01	G2.02	G2.03
-	EPOXI ANTICORROSIVA 2C TDS-6752		\bigcirc	
1ST PRIMING	IMPRIMACIÓN GLASS 2C TDS-6754		\bigcirc	
JT PR	MULTIUSOS TDS-6204			\bigcirc
13	LAYERS	2	2	2 a 3
	NDFT en µm	80	80	80 a 120
(5	ESMALTE POLIURETANO 2C* TDS-6855 / 6852	\bigcirc	\bigcirc	
2ND FINISHING	ESMALTE GLASS 2C* TDS-6853	\bigcirc	\bigcirc	
	ESMALTE METACRÍLICO TDS-6110	\bigcirc		\bigcirc
2	LAYERS	0	2	1
	NDFT en µm	0	80	0 a 1
4	LAYERS	2	4	3
TOTAL	NDFT en µm	80	160	120
_	DURABILITY			1

* In all applications intended for interior use, the Polyurethane finish products indicated may be substituted by the Epoxy 2C Enamel finish (TDS-6759) with identical micronage. **NDFT**: Nominal dry film thickness.



24

tkrom[®]

EXAMPLE INTERNAL STRUCTURE

- •Degree of protection: C2.
- •Material: Galvanised steel.
- •Environment: Unheated buildings (condensation), warehouses, sports halls....
- •**Surface preparation:** Sweep blasting and/or degreasing.
- Durability: Very high

IST PRIMING	MULTI-PURPOSE TDS-6204						
T PRI	LAYERS	2					
1S [.]	NDFT en µm	80					
2ND FINISHING	METHACRYLIC ENAMEL TDS-6110						
	LAYERS	2					
2NI	NDFT en µm	80					
	LAYERS	4					
тотаl	NDFT en µm	160					
	DURABILITY	1					





C3 MEDIA

The following table shows the different **systems available at tkrom** that comply with ISO 12944 in the **corrosivity category C3 for galvanised steels** by surface preparation by blasting, sweeping and/or degreasing.

	SYSTEM NO.	G3.01	G3.02	G3.03	G3.04	G3.05
	EPOXI ANTICORROSIVA 2C TDS-6752			\bigcirc		\bigcirc
1ST PRIMING	IMPRIMACIÓN GLASS 2C TDS-6754			\bigcirc		\bigcirc
T PR	MULTIUSOS TDS-6204		\bigcirc		\bigcirc	
1 S	LAYERS	2	2 a 3	2	2	2
	NDFT en µm	80	80 a 120	80	80	80
	ESMALTE POLIURETANO 2C* TDS-6852/ 6855	\bigcirc		\bigcirc		\bigcirc
SHING	ESMALTE GLASS 2C* TDS-6853	\bigcirc		\bigcirc		\bigcirc
2ND FINISHING	ESMALTE METACRÍLICO TDS-6110	\bigcirc	\bigcirc		\bigcirc	
7	LAYERS	0	0 a 1	2	2	3
	NDFT en µm	0	0 a 40	80	80	120
TOTAL	LAYERS	2	3	4	4	5
	NDFT en µm	80	120	160	160	200
	DURABILITY				1	1

* In all applications intended for interior use, the Polyurethane finish products indicated may be substituted by the Epoxy 2C Enamel finish (TDS-6759) with identical micronage. **NDFT**: Nominal dry film thickness.



tkrom[®]

EXAMPLE RAILWAY BRIDGE

- •Degree of protection: C3.
- •Material: Galvanised steel.

•Environment: Industrial and urban areas with medium level of pollution.

•Surface preparation: Sweep blasting and/or degreasing.

• Durability: High

IST PRIMING	EPOXY ANTICORROSIVE 2C TDS-6752	
T PRI	LAYERS	2
1S [.]	NDFT en µm	80
2ND FINISHING	ENAMEL POLYURETHANE 2C TDS-6852 / 6855	
O FINI	LAYERS	1
2ND	NDFT en µm	40
	LAYERS	3
TOTAL	NDFT en µm	120
	DURABILITY	





C4 ALTA The following table shows the different **systems available at tkrom** that comply with ISO 12944 in the **corrosivity category C4 for <u>galvanised</u>** <u>steels</u> by surface preparation by blasting, sweeping and/or degreasing.

	SYSTEM NO.	G4.01	G4.02	G4.03	G4.04	G4.05	G4.06
	EPOXI ANTICORROSIVA 2C TDS-6752	•		\bigcirc		\bigcirc	
1ST PRIMING	IMPRIMACIÓN GLASS 2C TDS-6754			\bigcirc		\bigcirc	
ST PR	MULTIUSOS TDS-6204		\bigcirc		\bigcirc		\bigcirc
e	LAYERS	2	2 a 3	2	2	2	2
	NDFT en µm	80	80a120	80	80	80	80
	ESMALTE POLIURETANO 2C TDS-6852/ 6855	\bigcirc		\bigcirc		\bigcirc	
2ND FINISHING	ESMALTE GLASS 2C* TDS-6853	\bigcirc		\bigcirc		\bigcirc	
ND FIN	ESMALTE METACRÍLICO TDS-6110	\bigcirc	\bigcirc		\bigcirc		\bigcirc
2	LAYERS	0	0 _a 1	2	2	3	3
	NDFT en µm	0	0 a 40	80	80	120	120
- -	LAYERS	2	3	4	4	5	5
TOTAL	NDFT en µm	80	120	160	160	200	200
	DURABILITY						

* In all applications intended for interior use, the Polyurethane finish products indicated may be substituted by the Epoxy 2C Enamel finish (TDS-6759) with identical micronage. **NDFT**: Nominal dry film thickness.



tkrom[®]

EXAMPLE SAWMILL STRUCTURE

•Degree of protection: C4.

•Material: Galvanised steel.

•Environment: Coastal area of medium salinity.

•Surface preparation: Sweep blasting and/or degreasing.

• Durability: High

1ST PRIMING	PRIMER GLASS 2C TDS-6754				
T PRI	LAYERS	2			
1S1	NDFT en µm	80			
2ND FINISHING	ENAMEL GLASS 2C TDS-6853				
	LAYERS	2			
2ND	NDFT en µm	80			
	LAYERS	4			
тотаl	NDFT en µm	160			
	DURABILITY				







The following table shows the different **systems available at tkrom** that comply with ISO 12944 in the **corrosivity category C5** for <u>galvanised steels</u> with an oxidation degree A, B or C, and with a surface preparation by blasting, sweeping and/ or degreasing.

SYSTEM NO.		G5.01	G5.02	G5.03	G5.04	G5.05	G5.06
	EPOXI ANTICORROSIVA 2C TDS-6752		\bigcirc		\bigcirc		
1ST PRIMING	IMPRIMACIÓN GLASS 2C TDS-6754		\bigcirc		\bigcirc		
T PR	MULTIUSOS TDS-6204	\bigcirc		\bigcirc		\bigcirc	0
18	LAYERS	2 a 3	2	2	2	2	2
	NDFT en µm	80 _a 120	80	80	80	80	80
DIATE	EPOXI HM INTERMEDIA TDS-6755	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
2ND INTERMEDIATE	EPOXI ALTO ESPESCR TDS-6762	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
N N N	LAYERS	0	0	0	0	0	1
2N	NDFT en µm	0	0	0	0	0	80a120
ن	ESMALTE POLIURETANO 2C* TDS-6852/ 6855		\bigcirc		\bigcirc	•	
NIHSI	ESMALTE GLASS 2C* TDS-6853		\bigcirc		\bigcirc		
3RD FINI	ESMALTE METACRÍLICO TDS-6110	\bigcirc		\bigcirc		\bigcirc	\bigcirc
25	LAYERS	0 a 1	2	2	2 a 3	2 a 3	1 a 2
	NDFT en µm	0 a 40	80	80	120	120	40 a 80
TOTAL	LAYERS	3	4	4	4 a 5	4 a 5	4 a 5
	NDFT en µm	120	160	160	200	200	240
F	DURABILITY	_					

* In all applications intended for interior use, the Polyurethane finish products indicated may be substituted by the Epoxy 2C Enamel finish (TDS-6759) with identical micronage. **NDFT**: Nominal dry film thickness.



EXAMPLE INDUSTRIAL PLANT

- •Degree of protection: C5.
- •Material: Galvanised steel.

•Environment: Industrial area with high humidity and aggressive environment.

•Surface preparation: Sweep blasting and/or degreasing.

• Durability: Very high

1ST PRIMING	PRIMER GLASS 2C TDS-6754	
T PRI	LAYERS	2
<u>13</u> .	NDFT en µm	80
2ND INTERMEDIA- TE	EPOXY HM INTERMEDIATE 2C TDS-6755	
INTER TE	LAYERS	1
2ND	NDFT en µm	80
3RD FINISHING	ENAMEL POLYURETHANE 2C TDS-6853	
	LAYERS	2
3RD	NDFT en µm	80
	LAYERS	5
FOTAL	NDFT en µm	240
	DURABILITY	1







AND GREASES

IMPRIMACIÓN SINTÉTICA ANTICORROSIVA



Anticorrosive synthetic primer based on glycerophtalic resins and anticorrosive pigments (zinc phosphate).

Ideal product for the protection against corrosion of iron and steel surfaces, both indoors and outdoors. Hard and elastic, it has high adhesion. This product is the alternative to Minium Lead. **USES:** Indoors and outdoors. Iron. Steel. **COLOURS:** Orange. Colours s/m.

YIELD: 6-8m²/l

APPLICATION: Brush, roller and spray.

FINISHING: Semi-matt.

TECHNICAL DATA SHEET: TDS 6218.

• FORMAT: 25kg, 4L, 750ml, 250ml.

finished



IMPRIMACIÓN MULTIUSOS



Universal primer based on acrylic resins, pigments, activated antioxidants and corrosion inhibitors, so it can be applied on surfaces with difficult adhesion. Suitable for decoration works, DIY, etc. **USES:** Indoors and outdoors. Iron. Steel. Galvanised steel. Copper. PVC. Polyester. Zinc. Non-ferrous metals: Copper. Lead. Plastics.

COLOURS: White. Grey. Red. Green. Black. Colours s/m.

YIELD: 5-7m²/l

APPLICATION: Brush, roller and spray

TECHNICAL DATA SHEET: TDS 6204

• FORMAT: 22kg, 4L, 750ml, 250ml



IMPRIMACIÓN EPOXI ANTICORROSIVA 2C



The two-component line TKROM Epoxi Imprimación Anticorrosiva for metal surfaces is based on epoxy-polyamidoamine resins, anticorrosive pigments (zinc phosphate) and special inert fillers; they form by polymerisation a hard, elastic film with excellent adhesion to the substrate.

RESIN

INDOOR/OUTDOOR

USES: Indoors and outdoors. Iron. Steel. Light alloys.

COLOURS: White. Colours s/m.

YIELD: 6-8m²/l

APPLICATION: Brush, roller and spray FINISHING: Semi-matt.

TECHNICAL DATA SHEET: TDS 6752

(A+B)

DRYING/REPAINTING

4h

8.48

• FORMAT: 18kg, 6kg

HANDS DILUTION/ CLEANING

Ð



DIEUTION/ CLEAN









IMPRIMACIÓN EPOXI ANTICORROSIVA HS 2C





Zinc-rich epoxy primer with high solids and excellent corrosion protection for steel. Formulated with bisphenol A based epoxy resin plus polyamidoamine adduct. Combines the hardness of epoxy products with the superior protection of zinc-rich primers. Outstanding resistance to water vapour, weathering and abrasion.

USES: Interior and exterior. Steel pipes. Tanks. Industry in general.

COLOURS: Grey.

PERFORMANCE: 2,5-3,5m²/l

APPLICATION: Brush, roller and spray FINISHING: Metallic.

TECHNICAL DATA SHEET: TDS 6753 (A+B)

• FORMAT: 24kg

4h

INDOOR/OUTDOOR













ESSENTIAL

IMPRIMACIÓN SECADO RÁPIDO

Very fast drying primer with good anti-rust properties and excellent ease of application. Very good hardness and extensibility without any tendency to sag. Made from modified glycerophthalic resins, it can be overcoated with all types of paints. Available in a version with excellent anticorrosive properties due to its

content of pigments based on active zinc phosphate.

USES: Indoors and outdoors. Iron. Steel.

COLOURS: White. Black. Blue. Red.

YIELD: 6-8m²/l

INDOOR/OUTDOOR

DRYING/PAINTING

Ô

APPLICATION: Brush, roller and spray.

FINISHES: Matt. Satin. Electrostatic. Anticorrosive.

TECHNICAL DATA SHEET: TDS 6202

• WHITE: 25kg, 4L, 750ml

20-25

DISSOLUTION CLEA-SOLVENT TKROM 345 SYNTHETICS AND GREASES

/depending on finish







SCAN THE QR CODE TO **VIEW THE FULL DATA SHEET**



tkrom.com f 0 in



IMPRIMACIÓN EPOXI HIERRO MICACEO 2C



High thickness two-component intermediate coat, based on epoxy-polyamidoamine resins, can be overcoated with two-component and conventional paints, and can be left as a finish due to its excellent durability.

Complies with the UNE 48295 standard.

USES: Indoors and outdoors. Iron. Steel. Aggressive environments.

COLOURS: Grey. Colours s/m.

YIELD: 3-5m²/l

APPLICATION: Brush, roller and spray FINISHING: Semi-matt.

TECHNICAL DATA SHEET: TDS 6755

(A+B)

30'

/12-48h

• FORMAT: 21Kg

INDOOR/OUTDOOR

RESIN DRYING/REPAINTING HANDS





IMPRIMACIÓN EPOXI 2C ALTO ESPESOR



Two-component high build intermediate coat, formulated with bisphenol A based epoxy resin without thinner plus polyamide modified with fatty acids and polyamines, recoatable with two-component paints. Excellent resistance to corrosion, acid impacts, alkalis and all kinds of conventional solvents, and can be left as a finish due to its excellent durability.

USES: Indoors and outdoors. Iron. Steel. Aggressive environments.

COLOURS: White. Red. Colours s/m.

YIELD: 2-3m²/l

APPLICATION: Brush, roller and spray FINISHING: Semi-matt.

TECHNICAL DATA SHEET: TDS 6762 (A+B)

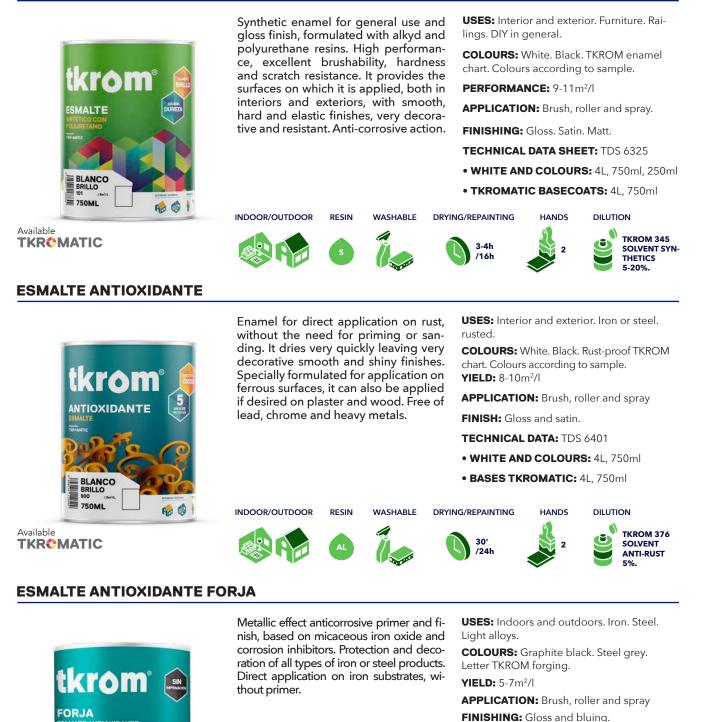
• FORMAT: 21kg







ESMALTE SINTÉTICO CON POLIURETANO



• COLOURS: 4L, 750ml

TECHNICAL DATA: TDS 6402

• TKROMATIC BASES: 4L, 750ml

INDOOR/OUTDOOR RESIN

WASHABLE





DRYING/REPAINTING

30

/24h



2

DILUTION



SMALTE ANTIOXIDANTE

TKROMATIC

Available

TKR[©]MATIC



ESMALTE SECADO RÁPIDO



Available TKRCMATIC INFINITYCOLOR Synthetic enamel made from modified alkyd resins, which give the product an exceptional air-drying speed, as well as very good hardness, elasticity, adhesion and gloss. The pigments used in its formulation are solid and resistant to light and atmospheric agents.

INDOOR/OUTDOOR

RESIN WASHABLE

USES: Indoor and outdoor. Suitable for agricultural and industrial machinery, pumps, compressors, structures, etc.

COLOURS: Industry chart. Colours s/m.

PERFORMANCE: 7-10m²/l. 6-9m²/kg

APPLICATION: Brush, roller and spray **FINISH:** Gloss.

TECHNICAL DATA SHEET: TDS 6304

- WHITE AND COLOURS: 20kg, 4L
- TKROMATIC BASES: 15L, 4L, 750ml

ASHABLE DRYING/REPAINTING HANDS DILUTION



ESMALTE METACRILICO PARA GALVANIZADOS



Available

ESMALTE EPOXI 2C



Available TKRCMATIC INFINITYCOLOR Solvent based acrylic enamel with excellent adhesion on galvanised steel, good gloss and excellent resistance to chemicals, water, weathering and corrosion.

Very good abrasion and wear resistance. **USES:** Piping. Tanks. Metal structures. Bridges.

COLOURS: Industry chart.

PERFORMANCE: 8-10m²/l

APPLICATION: Brush, roller and spray **FINISHING:** Gloss.

TECHNICAL DATA SHEET: TDS 6110

• TKROMATIC BASES: 15L, 4L, 750ml



Two-component enamel, based on epoxy-polyamidoamine resins and high solidity pigments. When dry, it forms a hard, elastic film, highly resistant to weathering (see product application data) and to dilute solutions of acids and alkalis, which makes it particularly suitable for use in interior paving. **USES:** Interior.Metal. Floors. Concrete surfaces. Aggressive environments.

COLOURS: Rust red. Industrial grey.letter.

PERFORMANCE: 7-9m²/l

APPLICATION: Brush, roller and spray

FINISHING: Satin and matte

TECHNICAL DATA: TDS 6759 (A+B)

- WHITE AND COLOURS: 15kg, 5kg
- TKROMATIC BASE: 15L, 4L, 750ml

HANDS

1-2

INTERIOR



WASHABLE DRYING/REPAINTING







grupo**tkrom**®



ESMALTE POLIURETANO 2C



Available TKROMATIC INFINITYCOLOR Two-component polyurethane enamel, based on hydroxyacrylic resins, aliphatic isocyanates and lightfast and weather-resistant pigments. When polymerised, it forms a durable film with high elasticity and adhesion. It is exceptionally resistant to atmospheric agents, lubricating oils, solvents and aggressive chemicals.

USES: Interior and exterior. Structures in chemical industries. Installations in marine floors. Floors.

COLOURS: White. Colours according to sample.

YIELD: 8-10m²/l. 7-8m²/kg

APPLICATION: Brush, roller and spray FINISHING: Gloss. Satin.

TECHNICAL DATA SHEET: TDS 6852 (A+B)

- WHITE AND COLOURS: 15kg, 5kg
- TKROMATIC BASES: 15L, 4L, 750ml

USES: Piping. Tanks. Metallic structures.

COLOURS: Graphite black. Steel grey.

APPLICATION: Brush, roller and spray

HANDS

TECHNICAL DATA SHEET: TDS 6855 (A+B)

DILUTION

1

310

B

TKROM 310 SOL-VENT

POLYURETHANE

5-20% TKROM 310 Solvent polyuretha ne 5-20% TKROM

INDOOR/OUTDOOR RESIN DRYING/REPAINTING HANDS DILUTION WASHABLE TKROM 310 SOL-Ð 15-20 1-2 VENT РЦ /3.4h POLYURETHANE 5-10% TKROM 310 polyurethane 5-10% TKROM 310

Bridaes.

TKROM forging chart.

YIELD: 9-11m²/

FINISH: Gloss.

• COLOURS: 4

DRYING/REPAINTING

30

/24h

• BASES TKROMATIC: 4L.

ESMALTE POLIURETANO FORJA 2C



TKROMATIC

ESMALTE GLASS 2C



Available TKROMATIC

Two-component polyurethane enamel, based on hydroxyacrylic resins and aliphatic isocyanates, with excellent hardness, flexibility, gloss and adhesion and high resistance to atmospheric agents. Anticorrosive primer and topcoat, with metallic effect, based on micaceous iron oxide and corrosion inhibitors, for the protection and decoration of all types of iron and steel products.







Two-component polyurethane enamel

based on hydroxylated acrylic resin and aliphatic isocyanate, with glossy

finish, maximum hardness, excellent

flexibility and high chemical and abra-

sion resistance. Finishing coat with

excellent performance in epoxy-polyurethane anti-corrosion systems. Repair

and restoration of bathrooms, kitchens,

tiles, household appliances, etc. Suitable for rural, marine and highly aggres-

RESIN

sive industrial environments.



USES: Interior and exterior. Structures in che-

mical industries. Installations in marine floors. Floors.

COLOURS: White. Colours according to sample YIELD: 11-13m²/l. 7-9m²/Kg

APPLICATION: Brush, roller and spray

FINISHING: Gloss, satin and matte on request.

- TECHNICAL DATA SHEET: TDS 6853 (A+B
- WHITE AND COLOURS: 15kg, 5kg, 1,25kg
- TKROMATIC BASES: 15L, 4L, 750ml

INDOOR/OUTDOOR





WASHABLE



DRYING/REPAINTING

HANDS

1-2





SALES POINTS

0

A whole team of painting and decoration professionals to help you and look for the best solutions.

> Scan the QR code and enter our search engine to find your nearest retailer.

■ tkrom PUNTOS DE VENTA

Todo un equipo de profesionales de la pintura y la decoración para ayudarte y buscar las mejores soluciones a tus necesidades.

Buscar mi punto de venta más cercano. Código postal o nombre ciudad Q









C/Londres, 13 Pol. Industrial Cabezo Beaza 30353 Cartagena, Murcia T: +34 968 089000

tkrom.com

