BEST SELLERS GUIDE

RAYSTON FLOOR

FLOORING SYSTEMS

KRYPTON chemical

IMPORTANT:

Krypton Chemical offers a broader range of flooring systems, adapted to all types of projects. This document only includes the most commonly used systems. For other solutions and systems, please contact our Technical Office: *technicaloffice@kryptonchemical.com.*

FLOORING SYSTEMS

RAYSTON FLOOR

WHAT IS A SYSTEM?

The system combines various products to deliver a tailored solution for specific flooring requirements in a project.

When designing such a system, it's important to recognize that multiple suitable products may be available. To ensure the best choice, several factors must be carefully considered:

1. Type of project
2. Type of substrate
3. Final use of the flooring

COMPOSITION OF A SYSTEM

Typically, a system consists of a primer layer applied to a clean, dry, and prepared substrate, followed by one or more layers of the base product, and finished with a topcoat. However, this is not always the case. Some products can serve as both primer and base layers, while certain finishes may include aggregates or special additives to achieve specific properties. Additionally, some systems, depending on their intended use, may not require a finish at all.

At Krypton Chemical, we are not just manufactures. We provided knowledge and years of experience to optimally advise you at every step of your project.

TABLE OF ABBREVIATIONS

Technology	Abbreviations
Epoxy	EP
Water-based epoxy	EPW
Polyurethane	PU
Water-based polyurethane	PUW
Polyurea	PUA
Polyurethane cement	PUC
Polysaspartic	PAS

Types of solutions	Abbreviations
Painting systems	10
Multilayer systems	20
Self-leveling systems	30
Aggregated systems	40

Other definitions	Abbreviations
Water-based	W
Antibacterial	AB
Flexible	FLEX
Confortable	COMFORT
Aliphatic	A
Polyurea-type spray machine	TECH
Decorative	DECO
Exterior	EXT
Safety	SAFETY
UV stable	UV
Food contact	FC

By definition, a painting system with EP Coat 100 will be as follows.

Rayston Floor	EP	10
Common to all systems	Technology	Type of solution

THIN FILM
SYSTEMS

EP 10 SYSTEM: MECHANICAL WORKSHOP. SPAIN

EPOXY SYSTEMS

100 % solids
— Rayston Floor EP 10

Water-based
— Rayston Floor EP 10 W

POLYURETHANE SYSTEMS

Water-based
— Rayston Floor PU 10 W
— Rayston Floor PU 10 W SPORT

Solvent-based
— Rayston Floor PU 10 SPORT

POLYSASPARTIC SYSTEMS

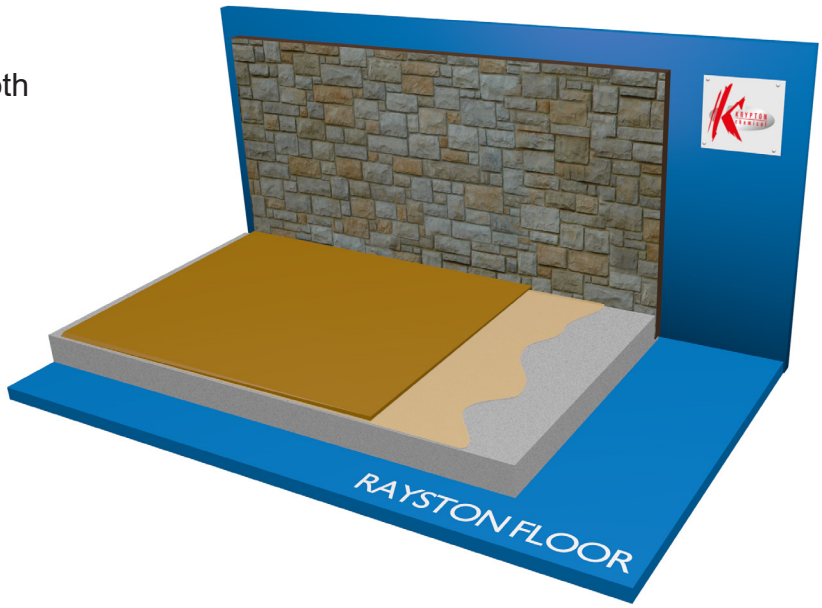
100 % solids
— Rayston Floor PAS 10

Rayston Floor EP 10

Last modification: 25/04/23

THIN FILM SYSTEM

Two-component system based on epoxy resins, pigmented, with a smooth or rough finish, for the protection of concrete surfaces and pavements.



TYPICAL APPLICATIONS

The Rayston Floor EP 10 system is an ideal option to cover floors in industrial premises, warehouses, parking lots, among others.

ADVANTAGES

- Good coverage.
- Easy to apply.
- The absence of solvents allows the use of this product in areas with public presence.
- High abrasion resistance.
- Glossy finish.

STEPS OF THE SYSTEM

Approximate system thickness: 1 mm

BASE

Concrete, >28 curing days, humidity <4 %, no capillary moisture, strenght <1,5N / mm², Temp. >10ºC, without any type of contamination, greas, dust or open pore.

PRIMER

Primer Epoxy 100

Primer Epoxy 100% is a 100% solid epoxy primer applied in two layers of 0,2 - 0,25 kg/m² each. The first layer can be diluted with 10% xylene solvent.

0,4 - 0,5 kg/m²

SURFACE COATING

EP Coat 100

100% solids epoxy coating for the protection of concrete surfaces and pavements. Apply 0,6 - 1 kg/m² in two layers of 0,3 - 0,5 kg/m² each.

Optional: *To obtain a non-slip finish, perform a sand broadcast (1 kg/m²) of aggregates size 0,3 - 0,8 mm on the fresh first layer of EP Coat 100.*

0,6 - 1 kg/m²

CERTIFICATES

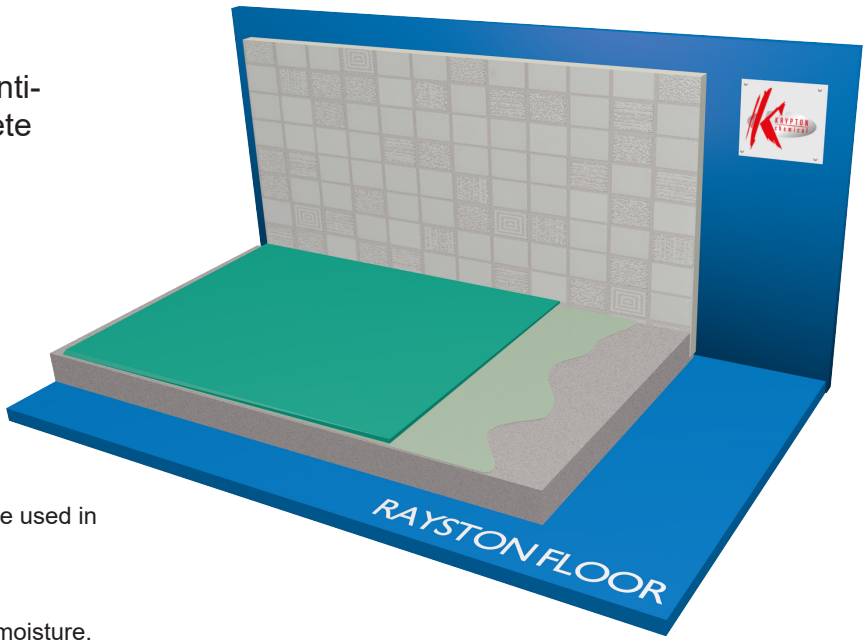
Certificate	Type of tests
Applus	CE Mark - UNE-EN 13813:2003. Adhesion resistance, UNE-EN13892-8:2003. Impact resistance, UNE-EN ISO 6272-1:2012. Wear resistance BCA, UNE-EN 13892-4:2003. Determination of the slip resistance value of unpolished flooring (USRV). UNE-ENV 12633:2003.
FCBA	Classement de la réaction au feu - EN 13501-1 : 2007.
kiwa	OS8.

Rayston Floor EP 10 W

Last modification: 25/04/23

THIN FILM SYSTEM

Two-component water-based epoxy system, pigmented, with smooth or anti-slip finish, for the protection of concrete surfaces and floors.



TYPICAL APPLICATIONS

The Rayston Floor EP 10 W system is an excellent choice for covering floors in industrial facilities, warehouses, parking lots, and similar environments..

ADVANTAGES

- Easy to apply.
- High resistance to abrasion.
- The absence of solvents allows this product to be used in areas with public presence.
- Satin or glossy finish.
- Waterproofing system permeable to water.
- Can be applied on surfaces with some residual moisture.

STEPS OF THE SYSTEM

Approximate system thickness: 0,3 - 0,5 mm

BASE

Concrete, >28 curing days, humidity <8 %, no capillary moisture, strenght <1,5N / mm², Temp. >10ºC, without any type of contamination, grease, dust or open pore.

PRIMER

Primer H

Water-based epoxy primer applied in two coats of 0,2-0,25 kg/m² each. It can be diluted with 10% water.

0,4 - 0,5 kg/m²

SURFACE COATING

EP Aquacoat

Water-based epoxy coating for the protection of concrete surfaces and floors. Apply in two coats of 0,150 - 0,2 kg/m² each.

Optional: *To obtain a non-slip finish, sprinkle the first layer of EP Aquacoat with1 kg/m² of 0,1-0,5 mm size aggregates.*

0,3 - 0,5 kg/m²

CERTIFICATES

EP Aquacoat

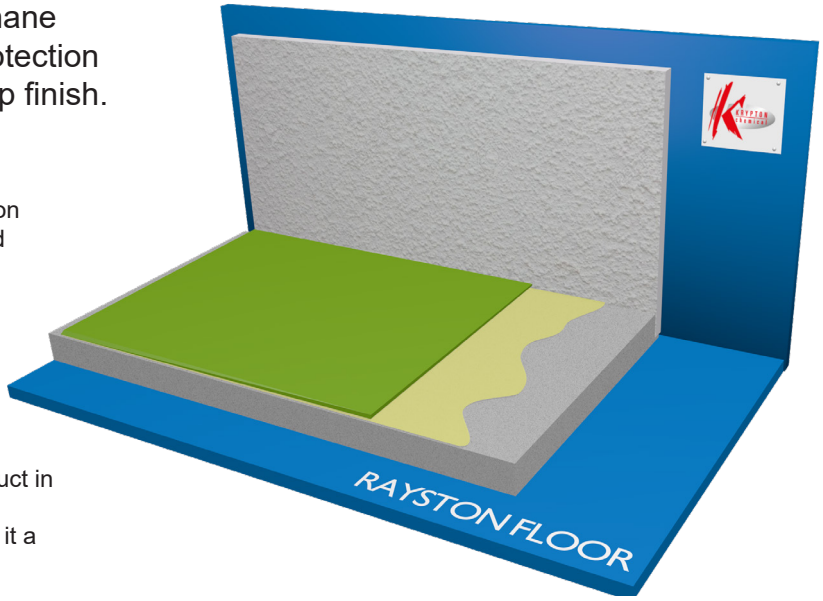
Certificate	Type of tests
Applus	CE Mark - UNE-EN 13813:2003. Adhesion resistance, UNE-EN13892-8:2003. Impact resistance, UNE-EN ISO 6272-1:2012. Wear resistance BCA, UNE-EN 13892-4:2003. Determination of the slip resistance value of unpolished flooring (USRV). UNE-ENV 12633:2003. Determination of the slip resistance value of unpolished flooring (USRV). UNE-ENV 12633:2003 with aggregate 0,1 - 0,3 mm. Determination of the slip resistance value of unpolished flooring (USRV). UNE-ENV 12633:2003 with anti-slip additive.
aitex	Fire reaction classification of the floor coverings UNE-EN 13501-1:2007+A1:2010.

Rayston Floor PU 10 W

Last modification: 25/04/23

THIN FILM SYSTEM

Two-component water-based polyurethane system with a smooth finish, for the protection of floors with either a smooth or anti-slip finish.



TYPICAL APPLICATIONS

The Rayston Floor PU 10 W system is an ideal option for covering concrete floors in general, garages, and parking lots with heavy traffic.

ADVANTAGES

- Good coverage.
- Easy to apply.
- Water vapor permeable system.
- Hard and flexible coating at the same time.
- The absence of solvent allows the use of this product in areas with public presence.
- It does not yellow on exposure to UV rays, making it a product suitable for outdoor use.
- High resistance to abrasion.

STEPS OF THE SYSTEM

Approximate system thickness: 0,4 mm

BASE

Concrete, >28 curing days, humidity <4 %, no capillary moisture, strenght <1,5N / mm², Temp. >10ºC, without any type of contamination, grease, dust or open pore.

PRIMER

Primer H — **0,3 - 0,5 kg/m²**

Two-component water-based epoxy primer, low viscosity, and high performance, applied in two layers of 0,25 kg/m². It is recommended to dilute the first layer with 10% water.

SURFACE COATING

Colodur ECO ** — **0,4 - 0,5 kg/m²**

Water-based polyurethane coating for the protection of concrete surfaces and pavements. Apply in two coats of 0,2-0,25 kg/m² each. To obtain a non-slip finish, sprinkle 0,1-0,5 mm granulometry aggregates on the first layer of Colodur Eco when the product is still fresh.

Optional: *Last layer in ECO MATE VARNISH ***.*

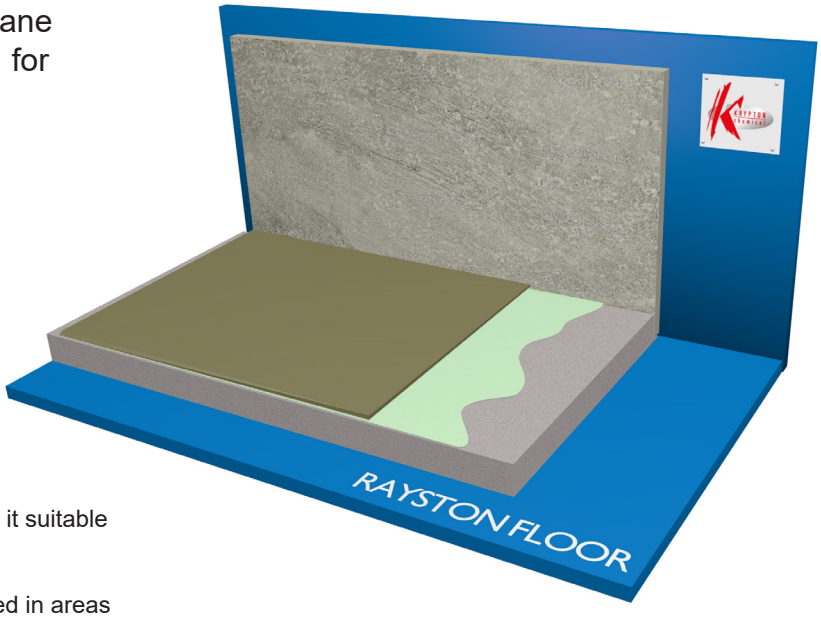
** For light colors, a minimum of 3 layers will be required with a consumption of 0,15 - 0,2 kg/m².
*** The maximum consumption of the COLODUR ECO MATE layer should be 0,15 kg/m².

Rayston Floor PU 10 W SPORT

Last modification: 25/04/23

THIN FILM SYSTEM

Two-component water-based polyurethane system with a smooth or anti-slip finish, for application on sports floors.



TYPICAL APPLICATIONS

Rayston Floor PU 10 W SPORT is an ideal solution for flooring in multipurpose sports halls and courts.

ADVANTAGES

- Good coverage.
- Easy to apply.
- Hard and flexible coating at the same time.
- Possibility of application on various substrate.
- Does not yellow when exposed to UV rays, making it suitable for outdoor use.
- High resistance to abrasion.
- The absence of solvent allow this product to be used in areas with public presence or interiors.

STEP OF THE SYSTEM

Approximate system thickness: 0,6 - 0,8 mm

BASE

Concrete, >28 curing days, humidity <8 %, no capillary moisture, strenght <1.5N/mm², Temp. >10ºC, free from any type of contamination, grease, or dust.

PRIMER

Primer H — **0,4 kg/m²**

Two-component universal epoxy primer, low viscosity and high performance, applied in two layers of 0,2 kg/m2. It is recommended to dilute the first layer with 10% water. For substrates with moisture >8%, PRIMER GC is recommended.

SURFACE COATING

Colodur Eco — **0,5 kg/m²**

Water-based aliphatic polyurethane coating for the protection of sports surfaces and floors. Apply in two layers: 0,250 kg/m² + 0,100 kg/m².

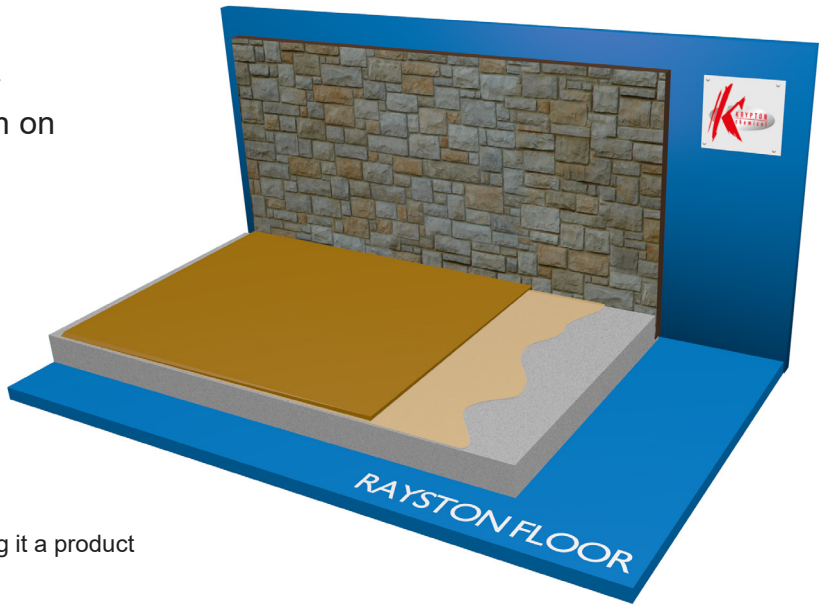
(Optional) Anti-slip additive: *In the second layer of 0,10 kg/m2, apply 3% / 5% kg of anti-slip additive.* — ***0,1 kg/m²***

Rayston Floor PU 10 SPORT

Last modification: 25/04/23

THIN FILM SYSTEM

Two-component solvent-based polyurethane system with a smooth or anti-slip finish, designed for application on sports flooring.



TYPICAL APPLICATIONS

Rayston Floor PU 10 SPORT is an ideal option for coating floors in multipurpose sports halls and courts.

ADVANTAGES

- Good coverage.
- Easy to apply.
- Hard and flexible coating at the same time.
- Possibility of application in differents substrates.
- It does not yellow on exposure to UV rays, making it a product suitable for outdoor use.
- High resistance to abrasion.

STEPS OF THE SYSTEM

Approximate system thickness: 0,6 - 0,8 mm

BASE

Concrete, >28 curing days, humidity <8 %, no capillary moisture, strenght <1.5 N/mm², Temp. >10 ºC, without any type of contamination, grease or dust.

PRIMER

Epoxy Primer 100 on concrete — **0,4 kg/m²**

Two-component universal epoxy primer, low viscosity and high performance, applied in two layers of 0,2 kg/m². It is recommended to dilute the first layer with 10% Rayston solvent.

TP FLEX Primer on Vinyl — **0,125 kg/m²**

Single-component polyurethane primer for non-porous and flexible surfaces. Apply one layer of 0,125 kg/m².

SURFACE COATING

Floortop 1K PIGMENTED — **0,3 kg/m²**

Solvent-based aliphatic polyurethane coating for the protection of sports surfaces and floors.

*Apply in two layers 0,15 kg/m² + 0,10 kg/m².

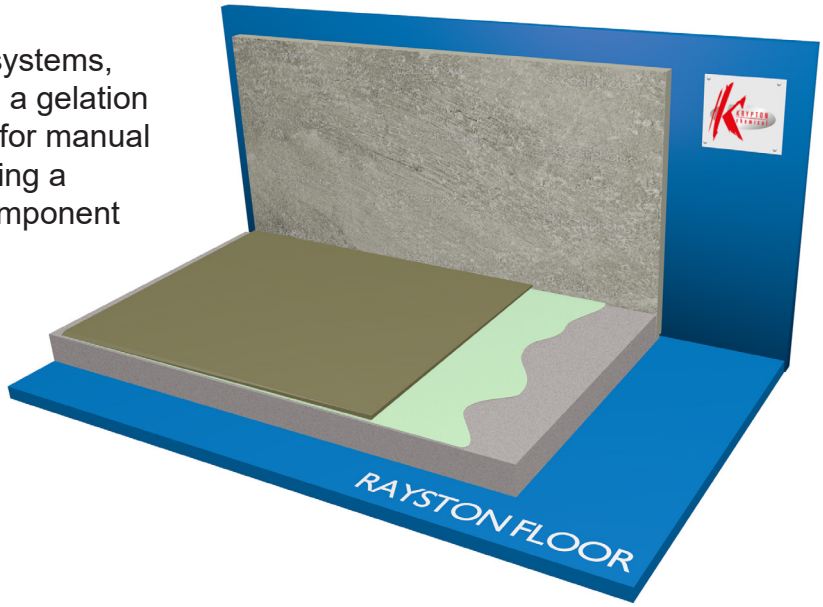
(Optional) Floortop 1K COLORLESS — **0,1 kg/m²**

Rayston Floor PAS 10

Last modification: 29/05/2023

THIN FILM SYSTEM

Two-component pigmented aliphatic polysaspartic system. Unlike classic systems, with a smooth or anti-slip finish, it has a gelation and curing time long enough to allow for manual mixing and application while maintaining a much shorter drying time than two-component polyurethane systems.



TYPICAL APPLICATIONS

The Rayston Floor PAS 10 system is an ideal option for coating floors, ramps, and access areas due to its fast curing.

ADVANTAGES

- Excellent gloss and color retention.
- Fast curing.
- Good adherence to different substrates.
- High weather resistance.
- Reduction of working times and quick startup.

STEPS OF THE SYSTEM

Approximate system tchickness: 0,5 - 0,7 mm

BASE

Concrete, >28 curing days, humidity <4 %, no capillary moisture, strenght <1.5 N/mm², Temp. >10 ºC, without any type of contamination, grease or dust.

PRIMER

Primer Epoxy 100

Two-component universal epoxy primer with low viscosity and high performance, applied in two layers of 0,25 kg/m². It is recommended to dilute the first layer with Rayston solvent at 10-15%.

0,5 kg/m²

SURFACE COATING

Kryptanate Manual / 100 LV **

Two-component system for manual application. Optional solvent-based or 100% solids, applied in two layers of 0,15-0,2 kg/m² each.

0,3 - 0,4 kg/m²

Optional ***: *Sprinkling of aggregates 2 - 3 kg/m² (0,3 - 0,5 mm).*

** For light colors, a minimum of 3 layers will be required with a consumption of 0,15 - 0,20 kg²
*** Meets class 3 according to UNE EN12633-2003. Without aggregates, class 1.

CERTIFICATES

Kryptanate M

Certificate	Type of tests
Applus	CE Mark - UNE-EN 13813:2003. Adhesion resistance, UNE-EN 13892-8:2003. Impact resistance, UNE-EN ISO 6272-1:2012. Wear resistance BCA, UNE-EN 13892-4:2003. Determination of the slip resistance value of unpolished flooring (USRV). UNE-ENV 12633:2003.

MULTILAYER
SYSTEMS

EP 20 SYSTEM: PARKING. SPAIN

EPOXY SYSTEMS

100 % solids
— Rayston Floor EP 20

POLYURETHANE SYSTEMS

100 % solids
— Rayston Floor PU 20

POLYSASPARTIC SYSTEMS

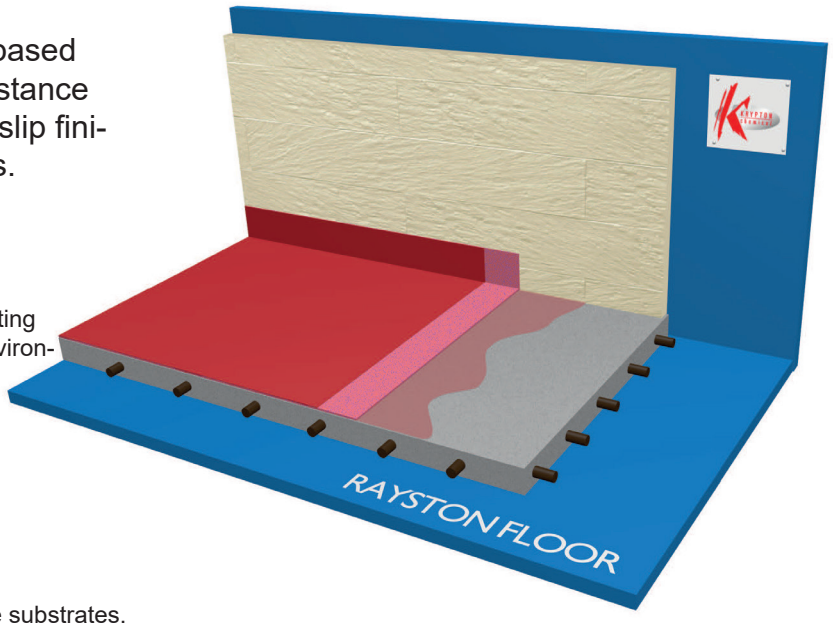
100% solids
— Rayston Floor PAS 20

Rayston Floor EP 20

Last modification: 22/03/2022

MULTILAYER SYSTEM

Two-component 100% solids system based on high mechanical and chemical resistance epoxy resins, pigmented, with an anti-slip finish, for the protection of concrete floors.



TYPICAL APPLICATIONS

Rayston Floor EP 20 is an excellent choice for coating floors in industrial, commercial, and warehouse environments.

ADVANTAGES

- High thickness.
- High chemical resistance.
- Excellent abrasion and scratch resistance.
- Easy to clean.
- Anti-slip finish (Category 3).
- Excellent adhesion to concrete, mortar, and stone substrates.

STEPS OF THE SYSTEM

Approximate system thickness: 2 mm

BASE

Concrete, >28 curing days, humidity <4 %, no capillary moisture, strenght <1,5 N/mm², Temp. >10 ºC, without any type of contamination, grease or dust.

PRIMER

Primer Epoxy 100 — **0,5 kg/m²**

Two-component universal epoxy primer, low viscosity and high performance, applied in two layers. It is recommended to dilute the first layer with 10% Rayston solvent.

Optional: *Fresh sprinkling of aggregates at 0,5 kg/m² with a granulometry (0,3 - 0,8 mm).*

INTERMEDIATE LAYER

EP Coat 100 — **0,3 - 0,5 kg/m²**

100% solid Epoxy resin.

Sprinkling of aggregates 0,3 - 0,8 mm — **1 - 1,5 kg/m²**

While fresh, sprinkle aggregates with a granulometry of (0,3-0,8 mm) until saturation is reached.

SEALING OF THE SYSTEM

EP Coat 100 — **0,4 - 0,6 kg/m²**

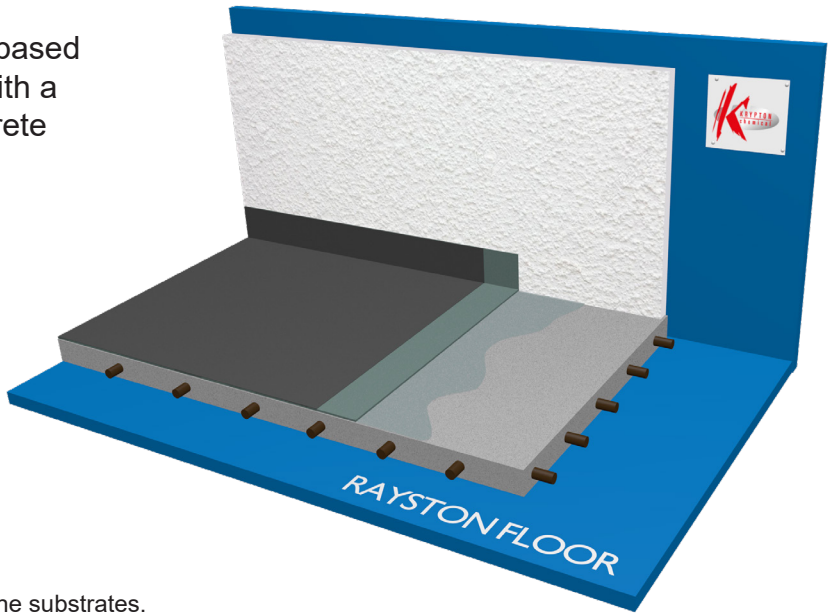
100% solid Epoxy resin.

Rayston Floor PU 20

Last modification: 09/03/2021

MULTILAYER SYSTEM

Two-component 100% solids system based on polyurethane resins, pigmented, with a rough finish for the protection of concrete surfaces and floors.



TYPICAL APPLICATIONS

The Rayston Floor PU 20 system is an ideal option for coating floors in industrial premises, warehouses, and workshops that require a rough finish and greater tolerance to movement and wear that conventional epoxy systems.

ADVANTAGES

- Waterproof and non-porous.
- Wide range of colors.
- Anti-slip, category 3.
- Excellent adherence to concrete, mortar, and stone substrates.
- Greater absorption of movement and impact than conventional epoxy systems.

STEPS OF THE SYSTEM

Approximate system thickness: 2,2 - 2,6 mm

BASE

Concrete, >28 curing days, humidity <4 %, no capillary moisture, strenght <1,5 N/mm², Temp. >10 ºC, without any type of contamination, grease or dust.

PRIMER

Primer Epoxy 100. 0,5 kg/m²

Two-component universal epoxy primer with low viscosity and high performance, applied in two layers of 0,25kg/m² each. It is recommended to dilute the first layer with 10% Rayston solvent.

Optional: *Fresh sprinkling of aggregates at 0,5 kg/m² (0,3 - 0,8 mm).*

SURFACE COATING

Pavifloor / aggregates. 1 - 2 kg/m²

Two-component 100 % solids polyurethane resin. Apply 1-2 kg/m² mixed with aggregates 1 - 0,3 mm (Ratio 1/0.3).

Sprinkling of aggreg ates 3 kg/m²

While fresh, saturate with aggregate 0,3 - 0,8 mm.

SEALING OF THE SYSTEM

Colodur Eco. 0,4 kg/m²

Two-component water-based aliphatic polyurethane resin. It creates a hard and flexible layer stable to UV rays. Apply in two coats of 150-200 g/m² each.

CERTIFICATES

Pavifloor

Certificate	Type of tests
Applus	CE mark - UNE-EN 13813:2003. Abrasion Taber.
aitex	French Laboratory PAVIFLOOR+COLODUR ECO+CHIPS. Rapport de Classement de la Réaction au Feu - EN 13501-1 : 2007. Rapport d'Essais.

Colodur Eco

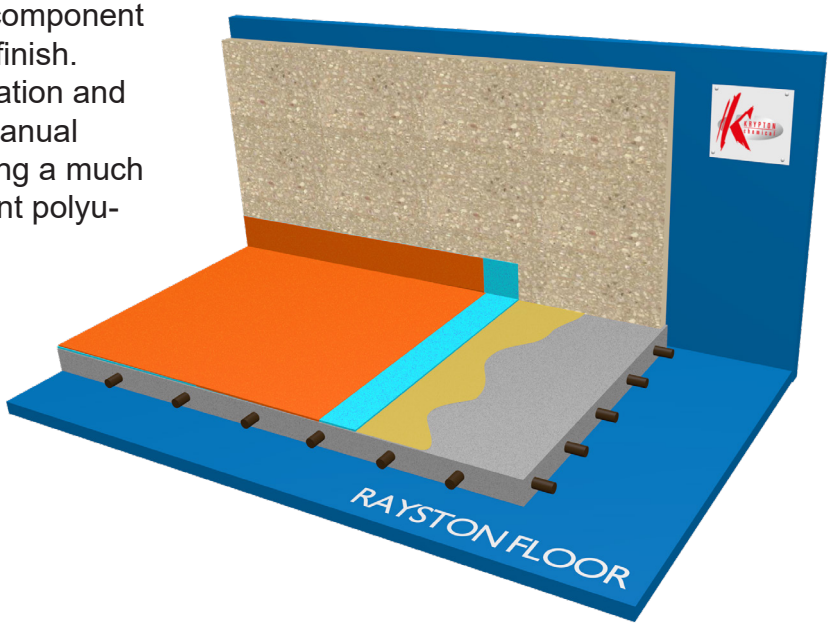
Certificate	Type of tests
Applus	Abrasion Taber. Slip resistance. Abrasion resistance TABER according to standard UNE 48450. Scratch resistance according to standard UNE EN ISO 1518. Resistance to liquids (motor oil and diesel) according standard UNE EN ISO 2812-3 and UNE EN ISO 2812-4. Resistance to staining from contact with vulcanized rubber. Determination of gloss according to standard UNE EN ISO 2813. Colorimetric determination (Coordinates CIELAB) according to standard UNE 48073. Determination of the Whiteness Index and Yellowing Index according to standard ASTM E 313. Accelerated artificial weathering test. EPOXY for comparing data with Colodur Eco. SELF-LEVELING PASTES FOR FLOORS, UNE-EN 13813:2003. Adhesion resistance, UNE-EN 13892-8:2003. Determination of slip/skid resistance value for unpolished floors (USRV). UNE-ENV 12633:2003, Annex A. Impact resistance, UNE-EN ISO 6272-1:2012. Wear resistance BCA, UNE-EN 13892-4:2003. Indoor Air: VOC emissions.

Rayston Floor PAS 20

Last modification: 15/06/2021

MULTILAYER SYSTEM

Pigmented, aliphatic, solvent-free, bi-component polysaspartic system with an anti-slip finish. Unlike traditional systems, it has a gelation and curing time long enough to allow for manual mixing and application while maintaining a much shorter drying time than two-component polyurethane systems.



TYPICAL APPLICATIONS

The Rayston Floor PAS 20 system is an ideal solution for flooring protections in wet areas, access zones, or ramps due to its fast curing.

ADVANTAGES

- Excellent gloss and color retention.
- Good adhesion and slip resistance.
- High weather resistance.
- Fast curing and reduced working times.

STEPS OF THE SYSTEM

Approximate system thickness: 2,2 - 2,6 mm

BASE

Concrete, >28 curing days, humidity <4 %, no capillary moisture, strenght <1,5 N/mm², Temp. >10 ºC, without any type of contamination, grease or dust.

PRIMER

Primer Epoxy 100. 0,5 kg/m²

Universal epoxy primer, bi-component, high-performance, and low viscosity, applied in two coats at 0,25 kg/m² each. Its recommended to dilute the first coat with 10% Rayston solvent.

Sprinkling of aggregates (0,3 - 0,8 mm). 0,5 - 0,7 kg/m²

MEMBRANE

Kryptanate 100 LV **. 1,20 kg/m²

Slow reaction polysaspartic two-component system with a gel time and curing speed slow enough to allow for manual application. Mix with quartz sand (0,1 - 0,3 mm) at a ratio of 1:0,8, and perform a sprinkling of aggregates while the mixture is still fresh.

Sprinkling of aggregates (0,3 - 0,8 mm). 3 kg/m²

FINISH

Kryptanate 100 LV (Pigmented). 0,5 - 0,7 kg/m²

100% solids polysaspartic bicomponent system.

** Consult the Technical Office for other types of Kryptanate (polysaspartics).

CERTIFICATES

Certificate	Type of tests
Applus	Abrasion Taber. Slip resistance. Abrasion resistance TABER according to standard UNE 48450. Scratch resistance according to standard UNE EN ISO 1518. Resistence to liquids (motor oil and diesel) according standard UNE EN ISO 2812-3 and UNE EN ISO 2812-4. Resistance to staining from contact with vulcanized rubber. Determination of gloss according to standard UNE EN ISO 2813. Colorimetric determination (Coordinates CIELAB) according to UNE 48073. Determination of the Whiteness Index and Yellowing Index according to standard ASTM E 313. Accelerated artificial weathering test. EPOXY for comparing data with Colodur Eco. SELF-LEVELING PASTES FOR FLOORS, UNE-EN 13813:2003. Adhesion resistance, UNE-EN 13892-8:2003. Determination of slip/skid resistance value for unpolished floors (USRV). UNE-ENV 12633:2003, Annex A. Impact resistance, UNE-EN ISO 6272-1:2012. Wear resistance BCA, UNE-EN 13892-4:2003. Indoor Air: VOC emissions.

SELF-LEVELING
SYSTEMS

EP 30 SYSTEM: OFFICES, MACEDONIA

EPOXY SYSTEMS

100 % solids
— Rayston Floor EP 30

POLYURETHANE SYSTEMS

100 % solids
— Rayston Floor PU 30
— Rayston Floor PU 30 FLEX
— Rayston Floor PU 30 COMFORT

POLYURETHANE CEMENT SYSTEMS

100 % solids
— Rayston Floor PUC 30

POLYUREA SYSTEMS

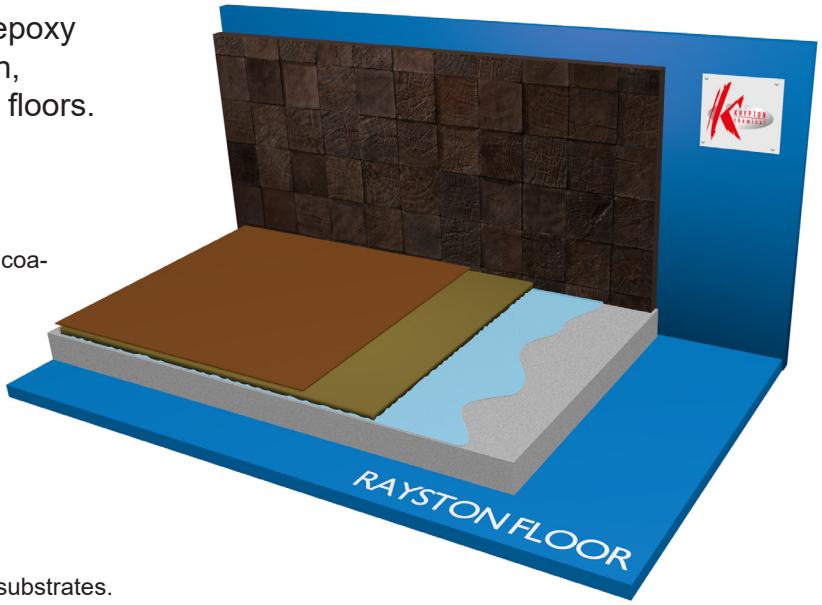
100 % solids
— Rayston Floor PUA S30
— Rayston Floor PUA 30 PARK

Rayston Floor EP 30

Last modification 25/04/23

SELF-LEVELING SYSTEM

Two-component system, 100% solids epoxy resin, pigmented, with an anti-slip finish, designed for the protection of concrete floors.



TYPICAL APPLICATIONS

The Rayston Floor EP 30 is an ideal system for the coating of industrial, commercial and warehouse floors.

ADVANTAGES

- High chemical resistance.
- Excellent resistance to abrasion and scratching.
- Anti-slip finish.
- Easy to clean.
- High thickness.
- Self-leveling system.
- Excellent adhesion to concrete, mortar and stone substrates.

STEPS OF THE SYSTEM

Approximate system thickness: 3 mm

BASE

Concrete, >28 curing days, humidity <4 %, no capillary moisture, strenght <1,5 N/mm², Temp. >10 ºC, without any type of contamination, grease or dust.

PRIMER

Primer Epoxy 100. 0,5 kg/m²

Universal epoxy primer, two-component, high-performance, and low viscosity, applied in two layers at 0,25 kg/m². It is recommanded to dilute the first layer with 10% Rayston solvent.

(Optional) Sprinkling of aggregates: *While fresh, sprinkle aggregates with a granulometry of (0,3 - 0,8 mm) until saturation. 2 - 3 kg/m².*

INTERMEDIATE LAYER

EP LEVEL + aggregates ratio 1:0.5. 3 kg/m²

For every kg of EP Level resin, add 0,5 kg of aggregates with a granulometry of 0,1 - 0,3 mm.

SEALING OF THE SYSTEM

Colodur Eco (Optional). 0,5 kg/m²

Aliphatic polyurethane finish, water-based, bicomponent that provides the system with color stability against UV rays and greater resistance to abrasion.

CERTIFICATES

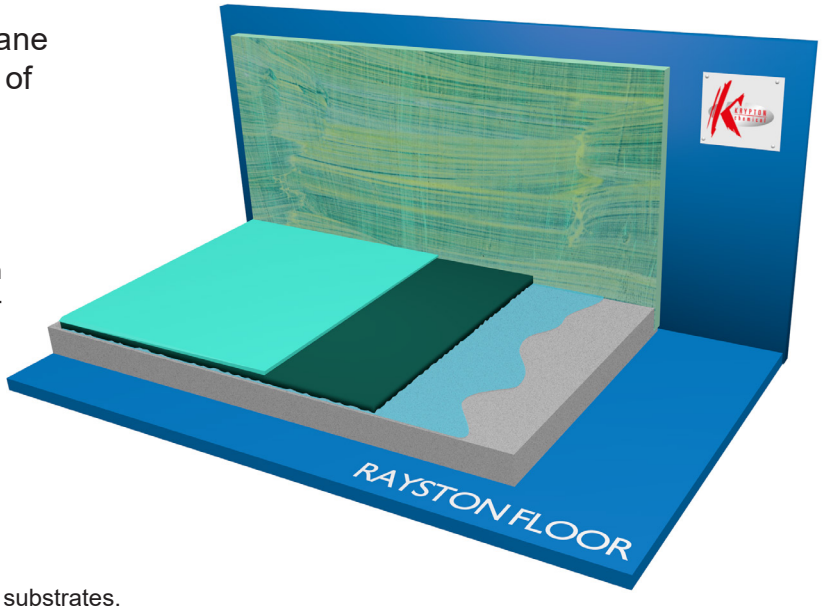
Certificate	Type of tests
Applus	EN 13813 SR-B4, 0-AR0, 5-IR14, 7. Applus Laboratory: Abrasion Taber. N. 08/32309984. Slip class: No. 10/1709-1861-10101589-1262.
CSTB	Classement performanciel

Rayston Floor PU 30

Last modification: 25/04/23

SELF-LEVELING SYSTEM

Two-component 100% solid polyurethane resin-based system, for the protection of concrete surfaces and pavements.



TYPICAL APPLICATIONS

The Rayston Floor PU 30 system is an ideal option for coating pavements in industrial premises, warehouse, stores, and factories.

ADVANTAGES

- Solvent-free product.
- Waterproof and non-porous.
- Easy to clean.
- Good resistance to abrasion.
- Good resistance to compression and impact.
- Wide range of colors.
- Excellent adhesion to concrete, mortar and stone substrates.

STEPS OF THE SYSTEM

Approximate system thickness: 2,6 - 2,8 mm

PRIMER

Primer Epoxy 100 — **0,5 kg/m²**

Universal epoxy primer bi-component, of high performance and low viscosity, applied in two coats of 0,25 kg/m2. Its recommended to diute the first coat with 10% solvent.

(Optional) Sprinkling of aggregates: *While fresh, sprinkle agregates with a granulometry (0,3 - 0,8 mm) until saturation. 0,5 - 0,7 kg/m².*

INTERMEDIATE LAYER

Pavifloor — **3 kg/m²**

SEALING OF THE SYSTEM

Colodur ECO * — **0,2 - 0,25 kg/m²**

Colodur ECO ** — **0,2 - 0,25 kg/m²**

For non-slip finishes in the last year, incorporate an anti-slip additive between 5 - 7% for the version with a maximum of 9 microns and 15% for the version weith approximately 700 microns. In this case, a special roller for pore filling No. 3 will be used.

* Another sealing option will be the polysaspartic Kryptanate M FLEX with an application rate of 0,2 - 0,25 kg/m² per layer, it is recommended to apply 2 layers.

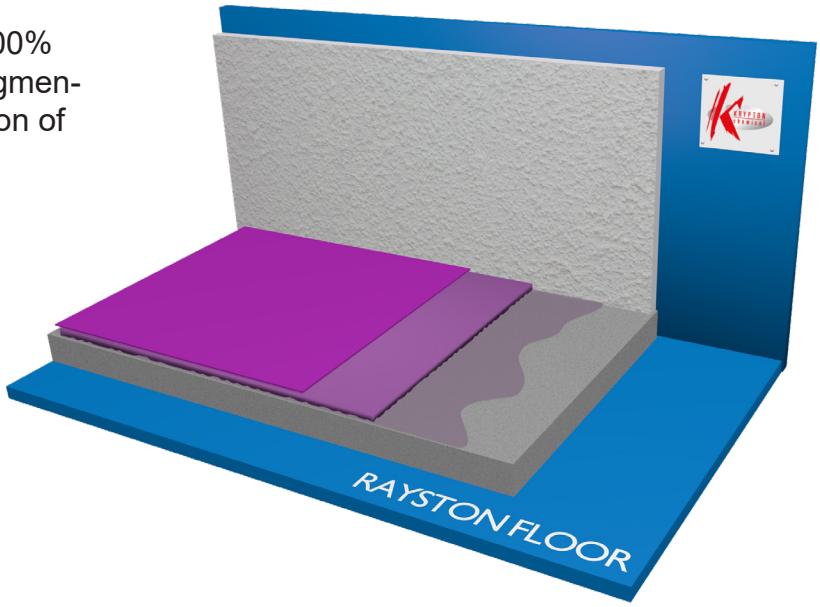
** Available in colorless (Glossy o Mate) or Pigmented (gloss).

Rayston Floor PU 30 FLEX

Last modification: 15/05/2024

SELF-LEVELING SYSTEM

Two-component self-leveling system, 100% solids based on polyurethane resins, pigmented, with a smooth finish for the protection of surfaces and concrete pavements.



TYPICAL APPLICATIONS

The Rayston Floor PU 30 Flex system is an ideal option for the protection of floors in industrial premises, warehouses, parking lots, workshops, clinics, hospitals, etc. that require a smooth finish and greater tolerance to movements and cracks than traditional systems.

ADVANTAGES

- Good resistance to abrasion and impact.
- Waterproof and non-porous.
- Wide range of colors.
- Solvent-free system.
- Fire resistance certificate Bfls1.
- Greater flexibility and absorption of movement and impact than conventional epoxy systems.
- Possibility of achieving different slip resistances by sprinkling aggregates of differents granulometries.

STEPS OF THE SYSTEM

Approximate system thickness: 2,2 - 2,6 mm

BASE

Concrete, >28 curing days, humidity <4 %, no capillary moisture, strenght <1,5 N/mm², Temp. >10 ºC, without any type of contamination, grease or dust.

PRIMER

Primer Epoxy 100. 0,3 - 0,5 kg/m²

100% solid epoxy primer. It can be applied in one or two coats to achieve greater penetration into the substrate.

Optional: *Sprinkling of aggregates with a granulometry of 0,3 - 0,8 mm while fresh. Total: 0,5 - 0,7 kg/m².*

SURFACE COATING

Pavisoft. 3 kg/m²

100% solids two-component polyurethane resin.

SEALING OF THE SYSTEM

Colodur Eco. 0,5 kg/m²

Two-component water-based aliphatic polyurethane resin. Creates a hard and flexible layer stable to UV rays. Apply in two coats of 200 - 250 g/m² each. For a non-slip finish, add an anti-slip additive between5-7% in the last layer.

CERTIFICATES

Pavisoft

Certificate	Type of tests
Applus	CE Mark - UNE-EN 13813:2003. Abrasion resistance - UNE-EN ISO 5470-1:1999 Load capacity - UNE-EN 1569:2000

Colodur Eco

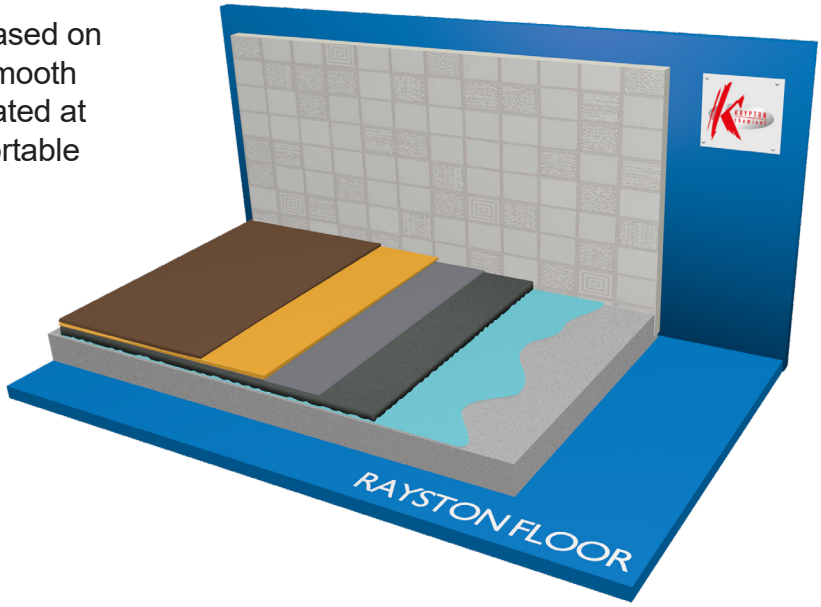
Certificate	Type of tests
Applus	Abrasion Taber. Slip resistance. Abrasion resistance TABER according to standard UNE 48450. Scratch resistance according to standard UNE EN ISO 1518. Resistance to liquids (motor oil and diesel) according to standard UNE EN ISO 2812-3 and UNE EN ISO 2812-4. Resistance to staining from contact with vulcanized rubber. Determination of gloss according to standard UNE EN ISO 2813. Colorimetric determination (Coordinates CIELAB) according to standard UNE 48073. Determination of the Whiteness Index and Yellowing Index according to standard ASTM E 313. Accelerated artificial weathering test. EPOXY for comparing data with Colodur Eco. SELF-LEVELING PASTES FOR FLOORS, UNE-EN 13813:2003. Adhesion resistance, UNE-EN 13892-8:2003. Determination of slip/skid resistance value for unpolished floors (USRV). UNE-ENV 12633:2003, Annex A. Impact resistance, UNE-EN ISO 6272-1:2012. Wear resistance BCA, UNE-EN 13892-4:2003. Indoor Air: VOC emissions.

Rayston Floor PU 30 COMFORT

Last modification: 04/06/2024

SELF-LEVELING SYSTEM

Two-component system, 100% solids, based on pigmented polyurethane resins, with a smooth finish. It features a rubber layer incorporated at the base of the system, creating a comfortable solution.



TYPICAL APPLICATIONS

The Rayston Floor PU 30 COMFORT system is an ideal option for coating floors in areas such as nurseries, sports halls, and schools.

ADVANTAGES

- Solvent-free product.
- Waterproof and non-porous.
- Easy to clean.
- Good resistance to abrasion.
- Good compressive and impact resistance.
- Wide range of colors.
- Resistant and anti-trauma.
- Noise reduction from impact.
- Excellent adhesion to concrete, mortar, and stone substrates.

STEPS OF THE SYSTEM

Approximate system thickness: 5 - 12 mm according to the type of rubber mat used.

BASE

Concrete, >28 curing days, humidity <4 %, no capillary moisture, strenght <1,5 N/mm², Temp. >10 ºC, without any type of contamination, grease or dust.

PRIMER

Primer Epoxy 100 — **0,3 kg/m²**

100% solid epoxy primer. It can be applied in one or two coats to achieve greater penetration into the substrate.

PU 2K ADHESIVE — **0,3 - 0,4 kg/m²**

RUBBER MAT

Sheet with a special blend of cellular rubber an recycled tire rubber, providing superior impact absorption and reducing injuries and wear on athletes' joints. Available in thickness of 4, 5, 6, 7, 8, 9 and 10 mm.

RUBBER SEALING LAYER

Pavisoft + 1 - 2 % thickening additive — **0,8 - 1 kg/m²**

100% solids two-component polyurethane resin.

SURFACE COATING

Pavisoft — **3 kg/m²**

100% solids two-componet polyurethane resin.

SEALING OF THE SYSTEM

Colodur Eco — **0,5 kg/m²**

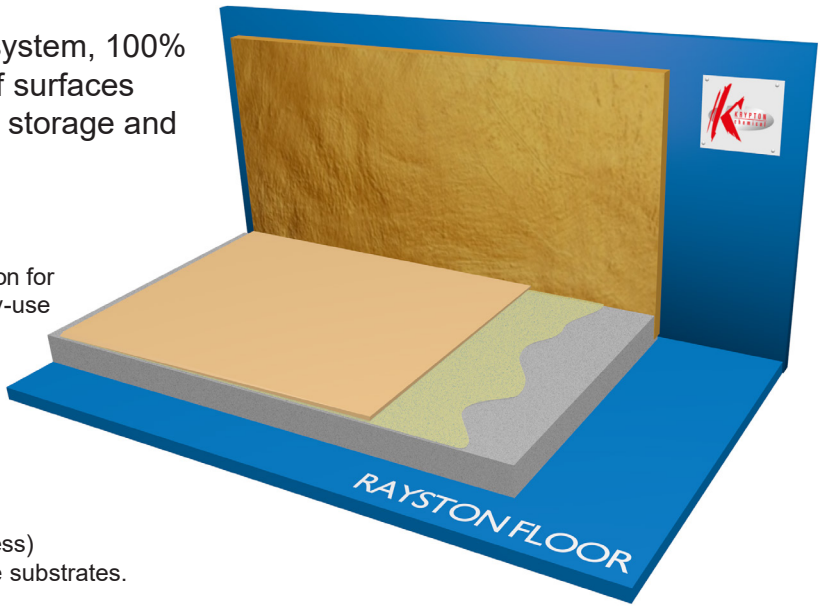
Aliphatic water-based polyurethane resin in two components. It creates a hard and flexible layer stable to UV rays. Apply in two layers of 200-250 g/m² each. For a non-slip finish in the last layer, incorporate an anti-slip additive between 5-7%

Rayston Floor PUC 30

Last modification: 29/10/2019

SELF-LEVELING SYSTEM

Tri-component polyurethane-cement system, 100% solids, pigmented, for the protection of surfaces and concrete pavements such as cold storage and freezing facilities.



TYPICAL APPLICATIONS

The Rayston Floor PUC 30 system is an ideal option for coating pavements in industrial kitchens and heavy-use areas such as cold storage and freezing facilities.

ADVANTAGES

- High chemical resistance.
- Great ease of cleaning at high pressure.
- Wide range of colors.
- Resistant to thermal shock (depending on thickness)
- Excellent adhesion to concrete, mortar, and stone substrates.

STEPS OF THE SYSTEM

Approximate system thickness: 4,75 mm. For different thickness, please consult the technical department.

PRIMER
Raycrete SL — **1,5 - 2 kg/m²**

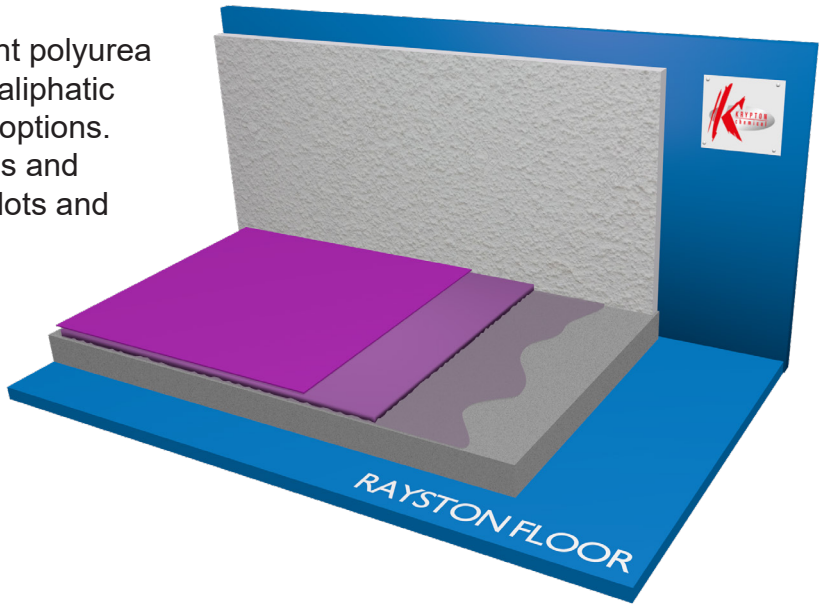
BASE
Raycrete SL — **6 kg/m²**

Rayston Floor PUA S30

Last modification: 29/01/2021

SELF-LEVELING SYSTEM

Slow-curing, 100% solid, bi-component polyurea self-leveling system, pigmented, with aliphatic finish, available in smooth or anti-slip options. Designed for the protection of surfaces and concrete pavements such as parking lots and industrial floors.



TYPICAL APPLICATIONS

The Rayston Floor PUA S30 system is an ideal option for coating floors in industrial facilities, warehouses, and large surfaces.

ADVANTAGES

- Walkable a few hours of application.
- Waterproof and non-porous.
- Easy to clean.
- Wide range of colors.
- Self-leveling.
- Long working open time.
- Excellent adhesion to concrete, mortar, and stone substrates.

STEPS OF THE SYSTEM

Approximate system thickness: 2 - 2,3 mm.

PRIMER

Primer Epoxy 100. — **0,2 - 0,25 kg/m²**

Pure and pigmented. Diluted 10 - 25% with Rayston solvent.

Optional: *Fresh sprinkling of aggregates (0,3 - 0,8 mm). 0,5 - 0,7 kg/m².*

INTERMEDIATE LAYER

Polyurea H SL — **2 kg/m²**

Optional: *Fresh sprinkling of aggregates (0,3 - 0,8 mm). 3 kg/m².*

SEALING OF THE SYSTEM (Optional)*

Floortop 1K — **0,2 - 0,25 kg/m²**

Floortop 1K ** — **0,2 - 0,25 kg/m²**

For non-slip finishes in the last layer, incorporate an anti-slip additive between 5 - 7% for the version with a maximum of 9 microns and 15% for the version with approximately 700 microns. In this case, a special roller for troweling with pore number 3 wil be used.

* For other sealing options, please consult the technical department.

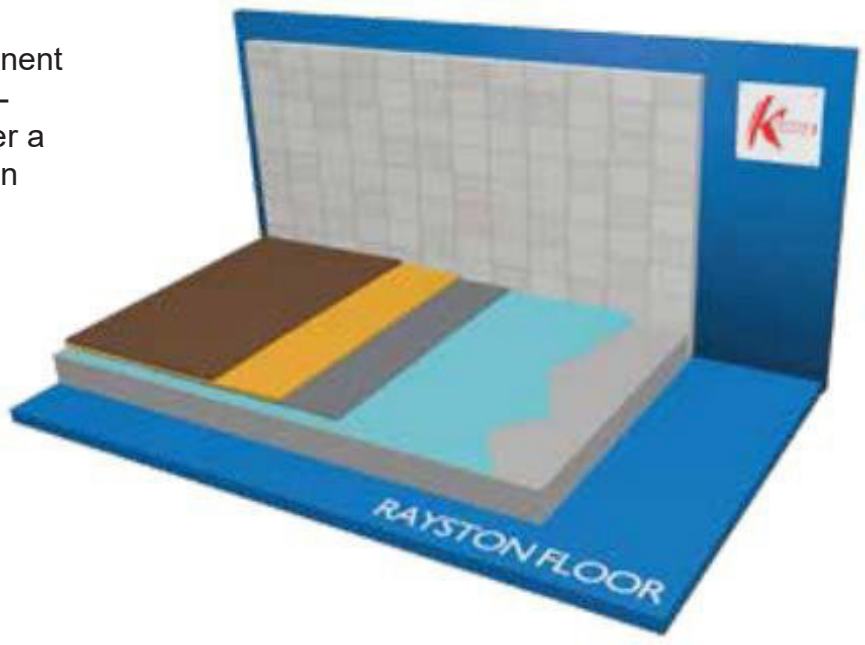
** Clear version (Glossy, Matte, or Satin) or Pigmented (Glossy).

Rayston Floor PUA 30 PARK

Last modification: 08/11/2021

SELF-LEVELING SYSTEM

System based on aromatic bi-component polyurea resins, with a 100% solid bi-component polysaspartic coating over a pigmented aliphatic finish, available in smooth or anti-slip options.



TYPICAL APPLICATIONS

The Rayston Floor PUA 30 PARK system is an ideal option for covering indoor parking lots, floors, ramps, and access areas.

ADVANTAGES

- Excellent color and gloss retention.
- Fast curing.
- Good adhesion.
- High resistance to low temperatures.
- Reduced work times.
- Good abrasion resistance.
- Waterproof.

STEPS OF THE SYSTEM

Approximate system thickness: 2,8 - 3 mm

BASE

Concrete, >28 curing days, humidity <4 %, no capillary moisture, strenght <1,5 N/mm², Temp. >10 ºC, without any type of contamination, grease or dust.

PRIMER

Primer Epoxy 100

Optional: *While fresh, sprinkle aggregates (0,3 - 0,8 mm). 0,5 - 1 kg/m².*

0,5 - 0,6 kg/m²

MEMBRANE

Rayston Floor D50 FR

2 kg/m²

JOINT BRIDGE

Porosity Sealer

0,2 kg/m²

FINISH

Kryptanate 100 LV

0,4 - 0,7 kg/m²

CERTIFICATES

Kryptanate

Certificate	Type of tests
Applus	CE MARK. UNE-EN 13813:2003. Resistance to Abrasion TABER s/n UNE 48250. Scratch resistance s/n UNE EN ISO 1518. Resistance to liquids (engine and diesel oil) s/n UNE EN ISO 2812-3 and UNE EN ISO 2812-4. Determination of brightness s/n UNE EN ISO 2813.

Colodur Eco

Certificate	Type of tests
aitex	Fire resistance EN 13501-1:2018. Hardness test Shore-D as per ASTM D-2240. The tensile strength test has been made as per ASTM D-412. Elongation at break. Tear resistance as per ASTM D-624 standard.

RESIN MORTAR
SYSTEMS

PU 40 DECO SYSTEM: CAMPING "LA BALLENA ALEGRE", GIRONA, ESPAÑA

POLYURETHANE SYSTEMS

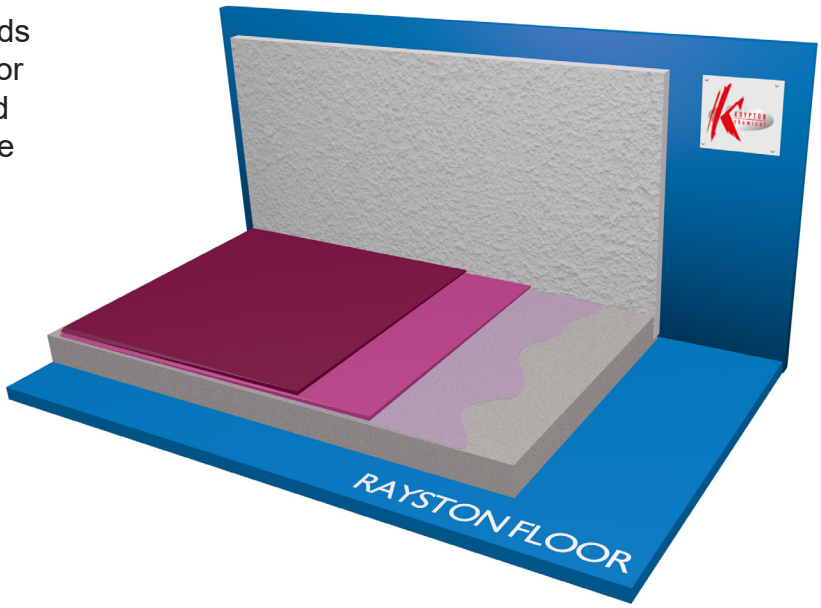
100 % solids
— Rayston Floor PU 40 DECO EXT
— Rayston Floor PU 40 SAFETY

Rayston Floor PU 40 DECO EXT

Last modification: 29/10/2019

RESIN MORTAR SYSTEM

Single-component, aliphatic 100% solids polyurethane resin system, designed for the protection of concrete surfaces and pavements, with added crushed marble aggregate.



TYPICAL APPLICATIONS

The Rayston Floor PU 40 DECO EXT system is an ideal option for covering pavements in garden decoration areas, commercial establishments, terraces, pool surrounding, etc.

ADVANTAGES

- Solvent-free product.
- Easy to clean.
- Good resistance to abrasion.
- Low maintenance.
- Drainage capability.
- Anti-slip, category 3.
- Excellent adhesion to concrete, mortar, and stone substrates.

STEPS OF THE SYSTEM

Approximate system thickness: 10,2 mm

PRIMER

Rayston Primer PU 100 — **0,1 - 0,2 kg/m²**

INTERMEDIATE LAYER

Pavistone 1K — **0,92 kg/m²**

Pavistone 1K mixed at 5,5% by weight with crushed marble stone of size 2 - 6 mm.

Crushed marble stone — **17 kg/m²**

For a thickness of 10 mm.
For other thicknesses, please consult the technical department.

SEALING OF THE SYSTEM

Floor Top 1k — **0,15 - 0,2 kg/m²**

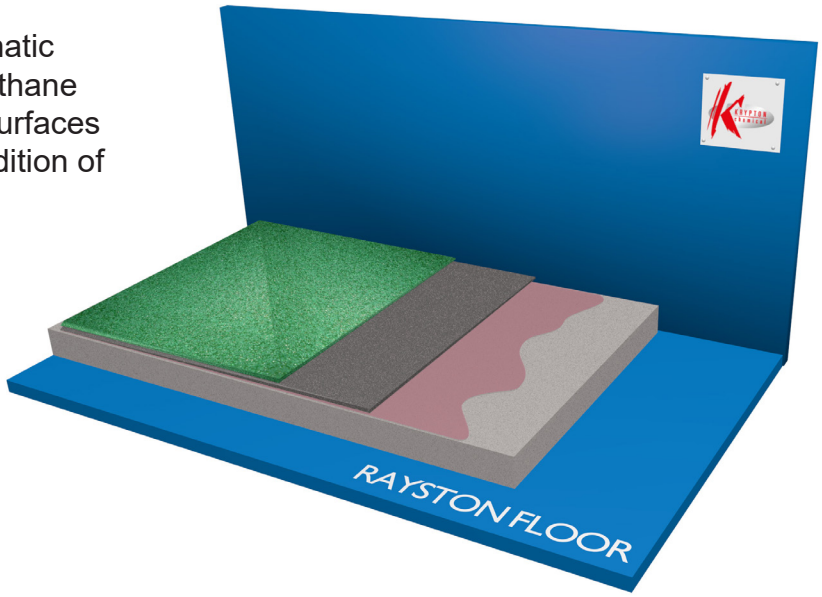
The different products must be selected based on the substrate needs and the site conditions.
For more information, please refer to the Rayston product technical data sheets.

Rayston Floor PU 40 SAFETY

Last modification: 01/01/2017

RESIN MORTAR SYSTEM

Monocomponent system with an aliphatic finish, 100% solids, based on polyurethane resin, designed for the protection of surfaces and concrete pavements, with the addition of SBR or EPDM rubber granules.



TYPICAL APPLICATIONS

The Rayston Floor PU 40 SAFETY system is an ideal option for coating pavements, decorative pavements and playgrounds.

ADVANTAGES

- Solvent-free product.
- Easy to clean.
- Good abrasion resistance.
- Low maintenance.
- Continuous application.
- Custom design.
- Impact absorption.
- Anti-trauma. Ideal for sports and children's play areas.
- Excellent adhesion to concrete, mortar, and stone surfaces.

STEPS OF THE SYSTEM

Approximate system thickness: 10,2 mm. For other thicknesses, consult the technical department.

PRIMER

Primer TP Flex 100 — **0,1 - 0,2 kg/m²**

INTERMEDIATE LAYER

Rubber binder — **3,12 kg/m²**

Binder rubber mixed in 15% by weight over SBR with a granulometry of 1 - 7 mm.

SBR, recycled 1 - 7 mm — **20,88 kg/m²**

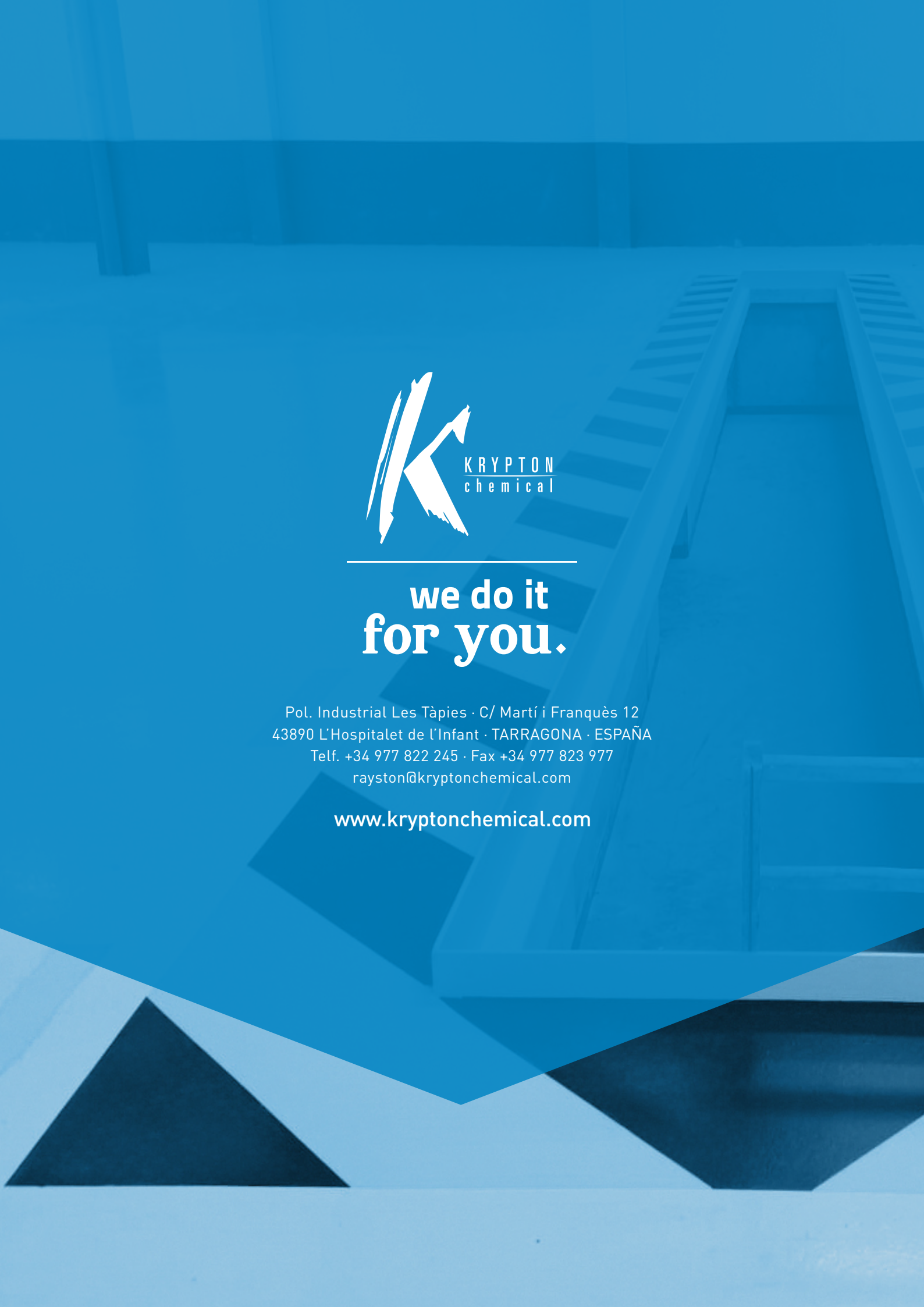
SEALING OF THE SYSTEM

Aliphatic rubber binder — **0,15 kg/m²**

Aliphatic rubber binder mixed in 21% by weight over the EPDM with a granulometry of 1 - 4 mm.

EPDM, color according to price list — **7,2 kg/m²**

The different products must be selected based on the substrate needs and the site conditions. For more information, please refer to the Rayston product technical data sheets.



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for you.

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