

RAYSTON
systems
by Krypton Chemical

**Flooring systems
BEST SELLERS GUIDE**

INDEX

FLOORING SYSTEMS

What is a system?	2
Support preparation and inspection	3
Rayston flooring systems	7

THIN FILM SYSTEMS

Epoxy systems

100% solids

Rayston Floor EP10	8
--------------------	---

Water-based

Rayston Floor EP10 W	9
----------------------	---

Polyurethane systems

Aliphatic, water-based

Rayston Floor PU10 W	10
----------------------	----

Polyaspartic systems

Aliphatic

Rayston Floor PAS10	11
---------------------	----

MULTILAYER SYSTEMS

Epoxy systems

100% solids

Rayston Floor EP20 DECOR	13
--------------------------	----

Rayston Floor EP20	14
--------------------	----

Water-based

Rayston Floor EP20 W	15
----------------------	----

MORTAR SYSTEMS

Polyurethane systems

100% solids aliphatic

Rayston Floor PU40 DECO EXT	17
-----------------------------	----

Rayston Floor PU40 SAFE	18
-------------------------	----

SELF-LEVELLING SYSTEMS

Epoxy systems

100% solids

Rayston Floor EP30	20
--------------------	----

Polyaspartic systems

Aliphatic

Rayston Floor PU30	21
--------------------	----

Rayston Floor PU30 FLEX	22
-------------------------	----

Rayston Floor PU30 FLEX DECO	23
------------------------------	----

Rayston Floor PU30 COMFORT	24
----------------------------	----

Polyurethane cementitious systems

100% solids

Rayston Floor PUC30	25
---------------------	----

Polyurea systems

Rayston Floor PA30TECH	26
------------------------	----

WHAT IS A SYSTEM?

A system is a combination of products that offer the solution to the needs of the client and his project. When deciding a system with some products or others, you should keep in mind that for different applications there are different suitable products. Depending on the type of work, the support or the use that are given to the floor, one characteristic or other is required. At Krypton Chemical we are not just manufacturers, we offer the knowledge and years of experience in order to offer the best for each step of project.

SYSTEM COMPOSITION

Usually, a system is composed of a primer coat on a clean, dry support, one or more layers of the base product and a top coat. However, this is not true in all cases. There are products that can served a primer and base coat at the same time, such as combinations in which it is necessary to add sands or special additives or systems that do not require any finish.

Technology	Abbreviation
Epoxy	EP
Epoxy water-based	EP W
Polyurethane	PU
Polyurethane water-based	PU W
Polyurea	PA
Polyurethane cementitious	PUC
Polyaspartic	PAS

Types of solutions	Abbreviation
Painting systems	10
Multilayer systems	20
Self-levelling systems	30
Binding systems	40

Other definitions	Abbreviation
Water-based	W
Antibacterial	AB
Flexible	FLEX
Comfortable	COMFORT
Aliphatic	A
Polyurea spray machine	TECH
Decorative	DECO
Exterior	EXT
Safety	SAFE
UV resistant	UV

By definition there will be a painting system with EP Coat 100:



SUPPORT PREPARATION AND INSPECTION

One of the most important thing to make flooring is preparation and inspection of the support, this will ensure a good durability of the solution offered by Krypton Chemical. On the following pages we will focus on every detail to take care of.

SUPPORT

- Type: Concrete, old pavements, ceramics ...
- Condition: New or old, irregular surfaces, moisture.
- Degree of contamination: dust, grease, grout foilure inadhesion and oils
- Leveling: Irregularities.

FLOORING SPECIFICATION

- Chemical Resistance: Nature, concentration, Temperature, exposure time.
- Mechanical Resistance: Loads, type of traffic planned.
- Hygiene: Legislative needs, frequency and cleaning products.
- Finish: Smooth or non-slip
- Aesthetic needs: Type of design, matt or shiny surface, colors, resistance to UV rays.

SUPPORT CONTROL

Compressive Strength: The compressive strength of a support should not be less than 25 N / mm² (25 MPa). It is advisable to take several measurements along the pavement to confirm this resistance, for example with a Schmidt hammer.



Cohesive force: The cohesive force is measured by pull-off tensile tests. The support must have at least: $\geq 1.5 \text{ N / mm}^2$ ($\geq 1.5 \text{ MPa}$)



Support humidity: It is very important to measure the supporty humidity, especially in cementitious surfaces, these should not be coated where more than 4% moisture, with a very simple test with a layer of polyethylene of at least 1m² applied on the concrete surface. It should be left at least 24 hours before removing and testing. Humidity measurement equipment can give a clear and fast reading of the humidity content in% pbv. If the contents are more than 4% or have signs of condensation, it will require additional drying time or the use of Tecnocem-type technologies and/or specific primers.

Enviromental conditions:

Failure to take measurements or ignore climatic and atmospheric factors can lead to defects, such as lack of adhesion, water marks, blistering, irregular surface formation or irregular curing.

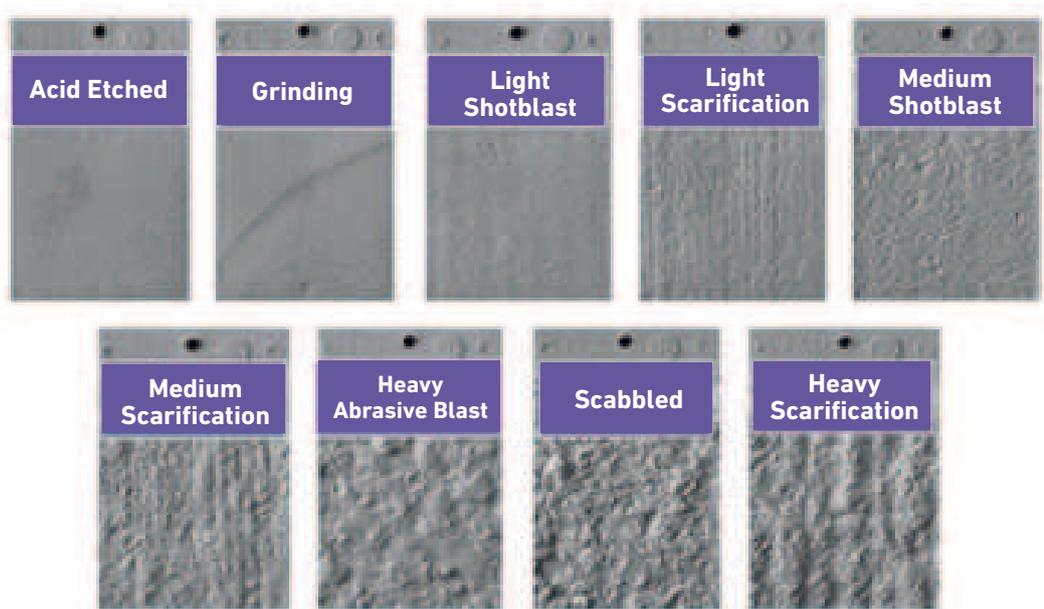
Check and remember, during and after the installation, the limitations of the system:

- Ambient temperature (air)
- Temperature of the support
- Relative humidity (air)
- Dew Point





ROUGHNESS DEGREE ACCORDING TO INTERNATIONAL CONCRETE REPAIR INSTITUTE



Source: International Concrete Repair Institute

MOST COMMON SUPPORT PREPARATION METHODS TO REACH ROUGHNESS LEVELS

	CSP1	CSP2	CSP3	CSP4	CSP5	CSP6	CSP7	CSP8	CSP9
Sanded /diamond									
Shotpeened									
Milling									

EQUIPMENT FOR THE SUPPORT PREPARATION

The sander is an auxiliary machine for ground preparation. It works from a rotating plate, with a sandpaper of carborundum or tungsten. It has been the most used machine to open pore in pavements, but with the arrival of new models of machines and the need to ensure a good anchorage in the application of pavements, it is increasingly focusing on sanding work between layers of paint, as a backing machine, or for small surfaces.



The latest generation of innovations in the field of floor preparation is with diamond grinding. This system cuts and wears the surface instead of beating it, so we do not dismember the concrete. With different types of diamond grinding, you can get from a very rough, very grated, to a very fine pore opening, always depending on the needs of the ground in finishing terms.

Sometimes a sanitation milling may be necessary and then a diamond finish to achieve the uniformity of the support. One of its most important features is that it can work on dry surface. Advisable for painted floors, coatings, polished, etc..



The operation of the shotblast, is based on the blasting of metal balls on the surface.



A turbine launches the metal balls against the pavement, automatically and by suction, the machine recovers the ejected balls to reuse them and the dust is collected by the vacuum cleaner, so that it does not produce dust and leaves no residue on the pavement.

This Milling Machine model will open the pores very well and ensure a good adhesion. Recommended for painted pavements, new façades, very smooth pavements and worn out by the use.



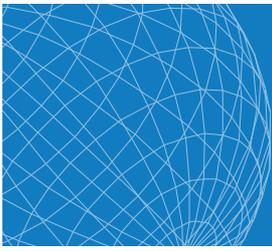
The Milling Machine has the ability to pick and lower surfaces of different materials, leaving a floor with very good anchorage for later coating. It acts on the surface by beating and rotating, leaving a wavy effect from 0.2 mm, to approximately 5 cm in depth, depending on the machine model.

It has the possibility of using different types of milling machine, with which it can be lowered, open pore or pull out coatings. Recommended for high thickness coatings such as multi-layers, mortars, self-levelling, etc.

The Hoover is an essential complementary machine. After any preparation treatment it is essential to leave the work area totally free of dust, and thus to seek a thorough cleaning to be able to carry out the subsequent application of the Rayston systems for flooring with the correct care.



There are many types of hoovers, but to ensure good work and vacuuming, we recommend industrial Hoover cleaners for continuous work and with special filters to work with the type of extra fine dust produced by the machines on the floor surface.



ROUGHNESS LEVEL ACCORDING TO THE SYSTEM TO BE APPLIED

	CSP1	CSP2	CSP3	CSP4	CSP5	CSP6	CSP7	CSP8	CSP9
Impregnation (0-150µm)	Yellow	Yellow	Yellow						
Thin layer (150-300µm)	Yellow	Yellow	Yellow						
Thick layer (300-2000µm)			Yellow	Yellow	Yellow				
Self-levelling (1-3mm)			Yellow	Yellow	Yellow	Yellow			
30mm)				Yellow	Yellow	Yellow	Yellow	Yellow	Yellow

SPECIFIC TREATMENTS

Fissures: The cracks should be opened with a circular saw along the line of the crack, and then all dust removed, and then apply a mortar with 100 epoxy resin in a ratio of 1: 4 with natural quartz.

Patches: For repairing the possible patches we will use an epoxy mortar with natural quartz in ratio 1: 8 depending on the depth of the same.

Expansion Joints: The joints are intended to allow the movements of the concrete and avoid irregular cracks. These happen as a result of settlements, shrinkage of concrete, temperature changes and stresses due to applied loads. There are several types of gaskets. Each one will adopt a different type of treatment depending on the characteristics, depth, movement, traffic...

As a comment, note the following points:

1. It is not advisable to fill up the joints that are subject to movement with self-leveling resins, polyurethane or Epoxy-based resins. If the joints that have movement with self-leveling resin are filled, different things can happen:

a. If the work is done in summer, the joint will expand in winter when the concrete contracts, and breakage will happen at this point.

b. If the work is done in winter, the joint will contract in summer when the concrete is expanded, and a wrinkle / ripple will form at this point.

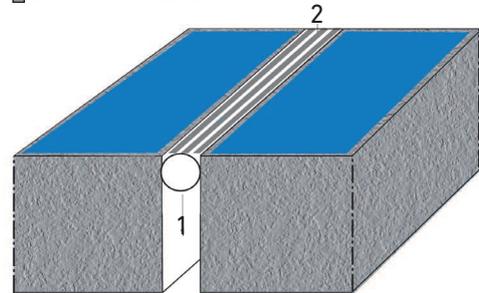
c. Fill the joint with medium modulus mastic like Rayston Flex 3040.

The movement joints will be left open when extending the self-leveling resin, taking into account the option of putting a reinforcement with steel plate that can act as a stop for the self-leveling system, and will be treated with medium modulus Rayston Flex 3040 mastic, in sufficient quantity, so that the mastic is always supported on the bottom of the joint, or using a RAYFOND-type joint.

For a better look, you can use a modulus putty under RAYSTON FLEX 3000 (see data sheet) of the color as close as possible to the self-leveling resin used.

FINAL POINT: In the boundary zones of the treatment no resins of any kind must be left so that they are "floating" or simply deposited on the pavement. To avoid this, circular saw cuts will be made in the pavement at those points where the treatment ends, thus achieving a mechanical anchorage of the system.

1 BACKGROUND JOINT
2 PUTTY - RAYSTON FLEX 3040



CONCLUSIONS OF THE SUPPORT AND THE JOINTS TREATMENT

The process of analysis and preparation of the support for the application of a floor covering is one of the most important processes, depending on the quality of this process can produce great differences in the final durability of the floor that we want to apply. To any undetected moisture in the support or poor preparation can cause very rapid deterioration of an applied flooring or even its removal, even though the materials used are of high quality.

When it comes to repairs of renovations, it is important to ensure that the pavement is ready for further treatment with resins. When it comes to repairs or rehabilitations, it is necessary to carry out an assessment of possible contaminations, to evaluate the type of pre-treatment required. In any case, a mechanical treatment must be carried out as preparation prior to the application of a floor covering. Sanding, abrasive polishing, shot blasting or even milling.



RAYSTON THIN FILM SYSTEMS

OUR PROJECTS WITH RAYSTON THIN FILM SYSTEMS



Rayston Floor PU10 W
Sports Center - L'Hospitalet de l'Infant, Spain



Rayston Floor PAS 10
Factory - Lyon, France



Rayston Floor PU10
Private flat - Castellón, Spain



RAYSTON FLOOR EP 10

DESCRIPTION :

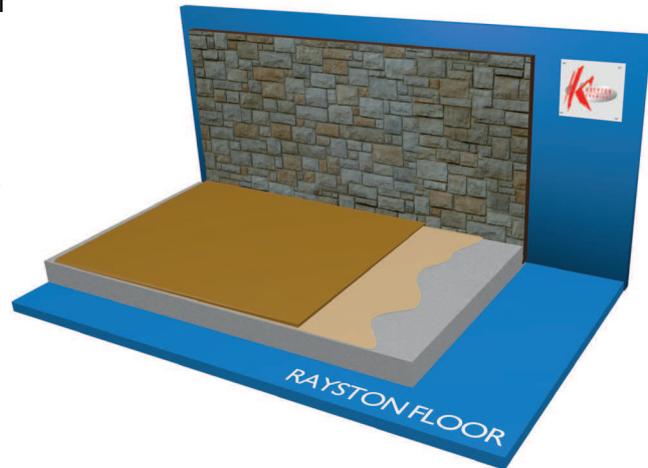
Two-component system, based on epoxy resins, pigmented, with a smooth or rough finish, for the protection of concrete surfaces and flooring.

MOST COMMON APPLICATIONS :

The Rayston Floor EP10 system is an ideal choice for covering industrial premises, warehouses, car parks...

ADVANTAGES :

- Great power to cover.
- Easy to apply.
- Glossy finish.
- Application of layers up to 1 mm



SYSTEM STEPS

System thickness 0,7-0,8 mm

PRIMER

Recommended primers***



Primer Epoxy 100

(diluted 10-15% with Rayston solvent)

0,2-0,25 Kg/m²*

Primer Epoxy 100

(pure and pigmented)

0,2-0,25 Kg/m²

SURFACE COATING



EP COAT 100**

(optional) **Sand broadcast** (0,3-0,8 mm)

0,25 Kg/m² in 1 layer

1 Kg/m²

EP COAT 100***

0,25 Kg/m² in 1 layer

* It can be higher

** Primer H, solvent-free two-component epoxy resin.

*** For other sealing options consult the technical department

****For light colors at least 3 layers will be necessary (0,25 Kg/m²)

CERTIFICATES

EP AQUACOAT

TYPE OF TEST	
	CE Mark - UNE-EN 13813:2003
	Resistance to adhesion, UNE-EN13892-8:2003
	Impact resistance
	Wear resistance BCA, UNE-EN 13892-4:2003
	Determination of slip / slip resistance value of unpolished pavements (USRV). UNE-ENV 12633:2003
	Determination of the sliding / slip resistance value of unpolished pavements (USRV). UNE-ENV 12633:2003 with anti-slip additive
	Classification reaction to fire -EN 13501-1:2007



The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.

RAYSTON SYSTEMS - KRYPTON CHEMICAL SL

Pol. Ind. Les Tàpies - C/Martí I Franquès, 12 - 43890 L'Hospitalet de l'Infant - Tarragona Spain
T. +34 977 822 245 - F. +34 977 823 977 - rayston@kryptonchemical.com - www.kryptonchemical.com



RAYSTON FLOOR EP10 W

DESCRIPTION:

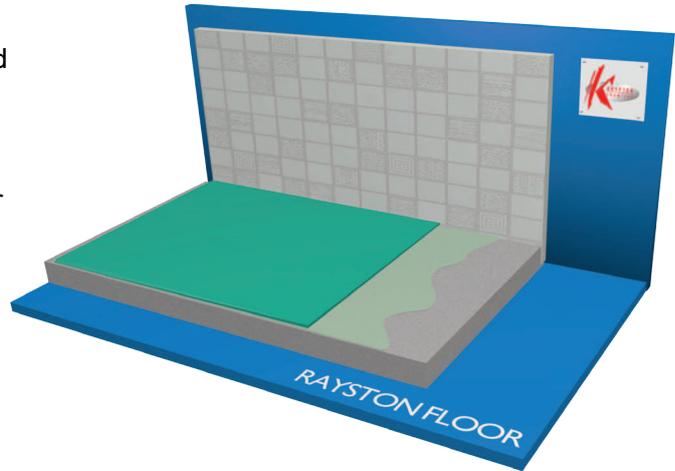
Two-component system, water-based, based epoxy resins, water soluble, pigmented, with a smooth or rough finish, for the protection of concrete surfaces and pavements.

MOST COMMON APPLICATIONS:

The Rayston Floor EP10 W system is an ideal choice for covering industrial premises, warehouses, car parks, tunnel lining.

ADVANTAGES:

- Can be applied on slightly humid surfaces or with some residual moisture.
- Waterproof system but permeable to steam.
- Easy application
- Satin or gloss finish.



SYSTEM STEPS

System thickness 0,27-0,35 mm

PRIMER

Recommended primers*



Primer H

First layer diluted 10-15% with water

0,2-0,25 Kg/m²

Primer H

Second layer, pure

0,2-0,25 Kg/m²

SURFACE COATING



EP Aquacoat

0,15-0,2 Kg/m²

(optional) **Sand broadcast** (0,4-0,9 mm)

1 Kg/m³

EP Aquacoat**

0,15-0,2 Kg/m²

* EP 100 Primer, two-component epoxy resin 100% solids

** For light colors, minimum three layers (0,15 - 0,2 Kg/m²)

*** Class 3 according to UNE EN12633-2003. Without sand, class 1.

CERTIFICATES

EP AQUACOAT

TYPE OF TEST	
	CE Mark - UNE-EN 13813:2003
	Resistance to adhesion, UNE-EN13892-8:2003
	Impact resistance
	Wear resistance BCA, UNE-EN 13892-4:2003
	Determination of slip / slip resistance value of unpolished pavements (USRV). UNE-ENV 12633:2003
	Determination of the sliding / slip resistance value of unpolished pavements (USRV). UNE-ENV 12633:2003 with anti-slip additive
	Classification reaction to fire of floor coverings UNE-EN 13501-1:2007+A1:2010



The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.

RAYSTON SYSTEMS – KRYPTON CHEMICAL SL

Pol. Ind. Les Tàpies - C/Martí I Franquès, 12 - 43890 L'Hospitalet de l'Infant - Tarragona Spain
T. +34 977 822 245 - F. +34 977 823 977 - rayston@kryptonchemical.com - www.kryptonchemical.com

RAYSTON FLOOR PU 10 W

DESCRIPTION:

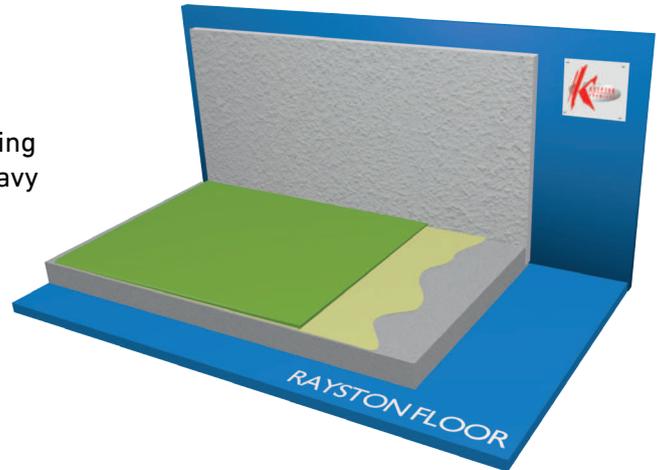
Two-component, water-based system, based on pigmented, polyurethane resins, with a smooth or rough finish, for the sealing and protection of floors with

MOST COMMON APPLICATIONS:

The Rayston Floor PU10 W system is an ideal option for coating concrete surfaces in general, garages and car parks with heavy traffic.

ADVANTAGES:

- Hard and flexible coating at the same time.
- This product can be used in areas with public presence because it has no solvent.
- Does not yellow on exposure to UV rays, so it is a product suitable for outdoor use.
- Their performance is far superior to the other systems such as conventional water-based (acrylic, epoxy and single component polyurethanes).



SYSTEM STEPS System thickness 0,25-0,35 mm

PRIMER	Primer H First layer diluted 10-15% with water	0,2-0,25 Kg/m ²
Recommended primers*		
	Primer H Second layer, pure	0,2-0,25 Kg/m ²
SURFACE COATING	Colodur ECO** (optional) Sand broadcast (0,4-0,9 mm)	0,15-0,2 Kg/m ² 1 Kg/m ²
	Colodur ECO*** Optional last layer in ECO MATE VARNISH	0,15-0,2 Kg/m ² 0,1-0,15 Kg/m ²

* EP 100 Primer bicomponent epoxy resin, 100% solids.
** For light colors, minimum three layers
*** Class 3 according to UNE EN12633-2003. Without sand, class 1.

CERTIFICATES

COLODUR ECO

TYPE OF TEST	
	Abrasion Taber
	Slip Resistance
	- Resistance to Abrasion TABER according to UNE 48250 standard - Scratch resistance according to UNE EN ISO 1518 standard - Resistance to liquids (engine and diesel oil) according to UNE EN ISO 2812-3 and UNE EN ISO 2812-4 - Resistance to contact staining Vulcanized rubber - Determination of brightness according to standard UNE EN ISO 2813 - Colorimetric determination (CIELAB coordinates) according to UNE standard 48073 - Determination of whiteness index and yellow index according to ASTM E 313 - Test of accelerated artificial aging in the open air
	EPOXI to compare data with Colodur Eco
	- Determination of the resistance to slippage / slippage of pavements Unpolished (USRV). UNE-ENV 12633: 2003, Annex A.
	SELF-LEVELING FLOORS FOR FLOORS, UNE-EN 13813: 2003 1- Resistance to adhesion, UNE-EN 13892-8: 2003 2-Determination of the value of the slip / slippage of the unpolished floor (USRV). UNE-ENV 12633: 2003, Annex A. 3- Impact resistance, UNE-EN ISO 6272-1: 2012 4- Wear resistance BCA, UNE-EN 13892-4: 2003
	Indoor air: VOC emission Unpolished (USRV). UNE-ENV 12633: 2003, Annex A.



The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.



RAYSTON FLOOR PAS 10

DESCRIPTION :

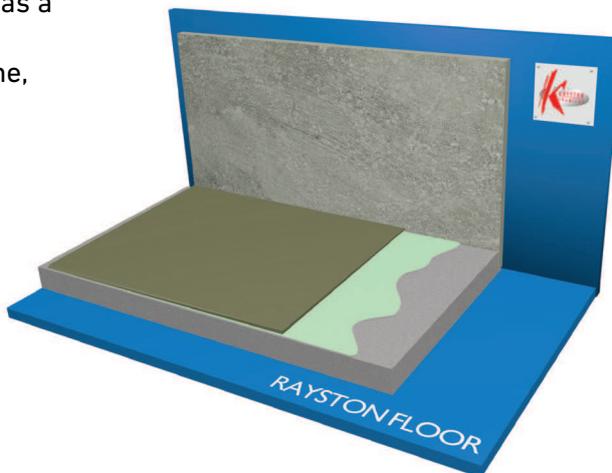
Two-component aliphatic system, pigmented solvent based polyaspartic system, with a smooth or anti-slip finish, has a sufficiently long gelling and cure time to allow manual mixing and application. It has a much shorter drying time, quicker than the two-component polyurethanes.

MOST COMMON APPLICATIONS :

The Rayston Floor PAS10 system is an ideal choice for covering ramps, access areas...

ADVANTAGES :

- Excellent gloss retention.
- Fast cured.
- Good adhesion.
- High resistance to weathering.
- Reduction of working hours.



SYSTEM STEPS System thickness 0,5-0,7 mm

PRIMER

Recommended primers*



Primer EP 100

0,2-0,25 Kg/m²

Primer EP 100

(Optional, depending on support characteristics)

0,2-0,25 Kg/m²

SURFACE COATING



KRYPTANATE MANUAL **

0,15-0,2 Kg/m²

(optional) SAND BROADCAST (0,4-0,9 mm)***

1 Kg/m³

KRYPTANATE MANUAL****

0,15-0,2 Kg/m²

* Kryptanate Manual polyaspartic bicomponent resin.

** Components available with other version 100% rigids and flexible

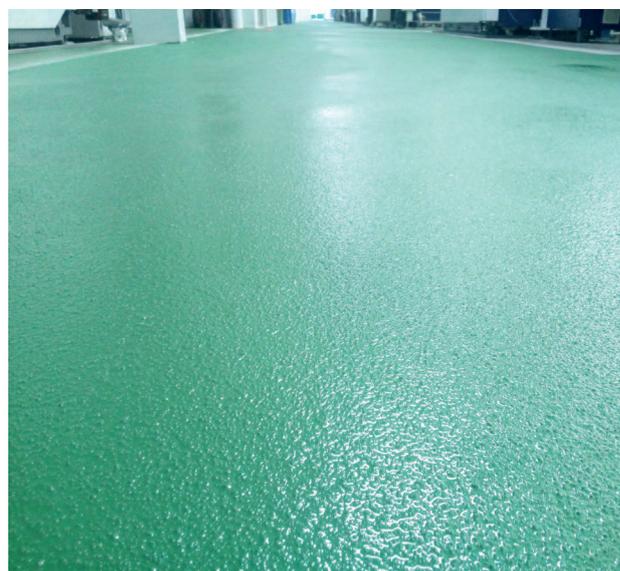
*** Class 3 according to UNE EN12633-2003. Without sand, class 1.

**** For light colors, minimum three layers (0,15 - 0,20 Kg/m²)

CERTIFICATES

KRYPTANATE M

TYPE OF TEST	
	- Abrasion resistance TABER s / n UNE 48250
	- Scratch resistance s / n UNE EN ISO 1518
	- Resistance to liquids (engine oil and diesel oil) s / n UNE EN ISO 2812-3 and UNE EN ISO 2812-4
	- Resistance to staining by contact with Vulcanized Rubber
	- Determination of brightness s / n UNE EN ISO 2813
	- Colorimetric determination (CIELAB coordinates) s / n UNE 48073/2 and ISO 7724/2
	- Determination of whiteness index and yellowing index s / n ASTM E313
	- Accelerated Weathering Artificial Aging Test
	- Test method s / n UNE EN ISO 11341: 2005 "Paints and varnishes: Artificial aging and artificial exposure: Filtered exposure of a xenon arc lamp".
	Determination of the slip / slip resistance value of unpolished pavements (USRV). UNE-ENV 12633: 2003
CE Mark - UNE-EN 13813:2003	
Resistance to adhesion, UNE-EN 13892-8: 2003	
Impact resistance, UNE-EN ISO 6272-1:2012	
Wear resistance BCA, UNE-EN 13892-4: 2003	
Determination of slip / slip resistance value of unpolished pavements (USRV). UNE-ENV 12633: 2003	



The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.

RAYSTON SYSTEMS - KRYPTON CHEMICAL SL

Pol. Ind. Les Tàpies - C/Martí I Franqués, 12 - 43890 L'Hospitalet de l'Infant - Tarragona Spain
T. +34 977 822 245 - F. +34 977 823 977 - rayston@kryptonchemical.com - www.kryptonchemical.com



RAYSTON MULTILAYER SYSTEMS

OUR PROJECTS WITH RAYSTON MULTILAYER SYSTEMS



Rayston Floor EP20 W *(Page 15)*
Warehouse - Spain



Rayston Floor EP20
Warehouse - Israel



Rayston Floor EP20 DECOR *(Page 14)*
Office -Spain

RAYSTON FLOOR EP20 DECO

DESCRIPTION:

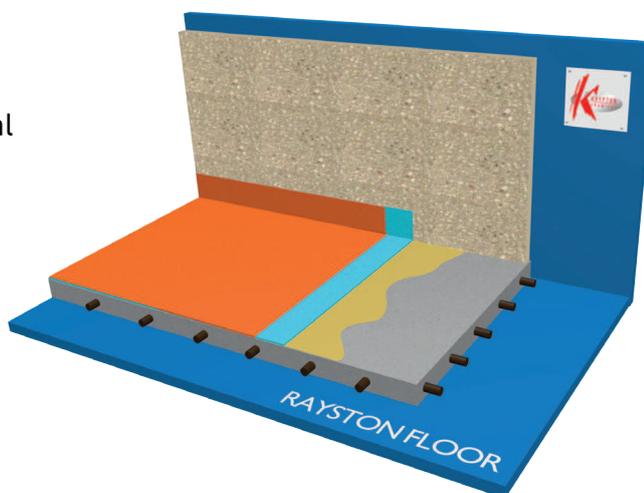
Two-component, 100% solid, based on epoxy resins, pigmented, with rough finish, for the protection of concrete surfaces and pavements.

MOST COMMON APPLICATIONS:

The Rayston Floor EP20 Deco system is an ideal choice for floor covering in industrial premises, warehouses, kitchens, shops...

ADVANTAGES:

- Excellent adhesion to concrete, mortar and stone supports
- Good chemical resistance.
- Waterproof and non-porous
- Wide range of colors.
- Decorative



SYSTEM STEPS System thickness 3-3,5 mm

PRIMER	Primer EP 100 First layer diluted 10-15% with Rayston solvent Primer EP 100 Second layer, pure Sand Broadcast on wet layer	0,2-0,25 Kg/m ² 0,2-0,25 Kg/m ² 0,5-0,7 Kg/m ²
SURFACE COATING	EP Multilayer varnish Mixture of resin with sand (0,1-0,3mm) relation 1/1,5 Colored Sand Broadcast (0,3-0,8 mm)	1,65 Kg/m ² 3 kg/m ³
TOP COAT	EP Multilayer varnish	0,4 Kg/m ²

* EP Multilayer two-component epoxy resin varnish

CERTIFICATES

EP MULTILAYER Varnish

TYPE OF TESTS	
	CE mark - UNE-EN 13813:2003
	Resistance to adhesion, UNE-EN 13892-8: 2003
	Impact resistance, UNE-EN ISO 6272-1:2012
	Wear resistance BCA, UNE-EN 13892-4: 2003
	Determination of slip / slip resistance value of unpolished pavements (USRV). UNE-ENV 12633: 2003
	Determination of slip / slip resistance value of unpolished pavements (USRV). UNE-ENV 12633: 2003 with antislip Additive
	Classement de la réaction au feu - EN 13501-1 : 2007



The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.

SISTEMAS RAYSTON - KRYPTON CHEMICAL SL

Pol. Ind. Les Tàpies - C/Martí I Franquès, 12 - 43890 L'Hospitalet de l'Infant - Tarragona Spain
T. +34 977 822 245 - F. +34 977 823 977 - rayston@kryptonchemical.com - www.kryptonchemical.com

RAYSTON FLOOR EP20

DESCRIPTION:

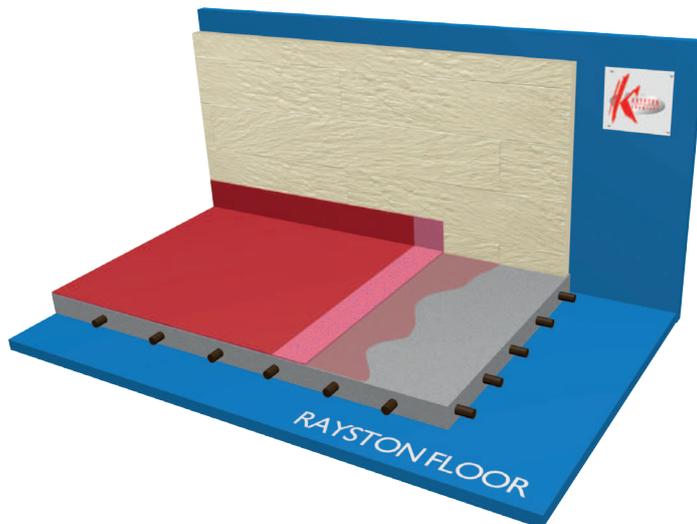
Two-component system, 100% solids, based on epoxy resins, pigmented, with an aromatic and rough finish for the protection of surfaces and concrete pavements.

MOST COMMON APPLICATIONS:

The Rayston Floor EP20 system is an ideal choice for covering industrial premises, warehouses, kitchens, shops...

ADVANTAGES:

- Excellent adhesion to concrete, mortar and stone supports.
- Good chemical resistance.
- Waterproof and non-porous.
- Wide range of colors.



SYSTEM STEPS

System thickness 2,8 - 3,4 mm

PRIMER



Primer EP 100

(diluted 10-15% with Rayston solvent)

0,2-0,25 Kg/m²

Primer EP 100

Second layer, pure

0,2-0,25 Kg/m²

(optional) **Sand broadcast on wet layer** (0,3-0,8 mm)

0,5-0,7 Kg/m²

SURFACE COATING



EP COAT 100

EP COAT 100/SAND (0,1-0,3mm) ; 1/0,8
Sand broadcast (0,3-0,8 mm NEUTRO)

1,8 Kg/m²

3 Kg/m³

TOP COAT



EP COAT 100**

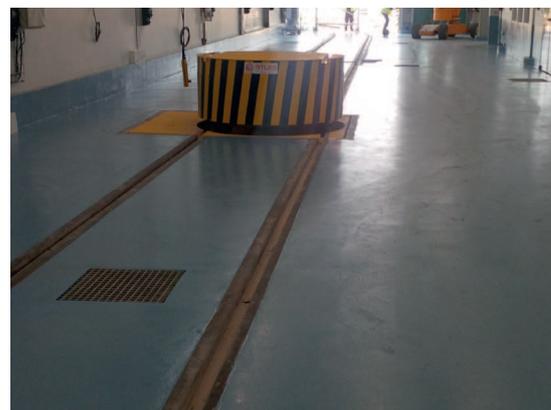
0,4-0,6 Kg/m²

CERTIFICATES

EP COAT 100

TYPE OF TESTS

	CE Mark - UNE-EN 13813:2003
	Resistance to adhesion, UNE-EN13892-8:2003
	Impact resistance UNE-EN ISO 6272-1:2012
	Wear resistance BCA, UNE-EN 13892-4:2003
	Determination of slip / slip resistance value of unpolished pavements (USRV). UNE-ENV 12633:2003
	Determination of the sliding / slip resistance value of unpolished pavements (USRV). UNE-ENV 12633:2003 with anti-slip additive
	Classification reaction to fire- EN 13501-1 : 2007



The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.



RAYSTON FLOOR EP20 W

DESCRIPTION:

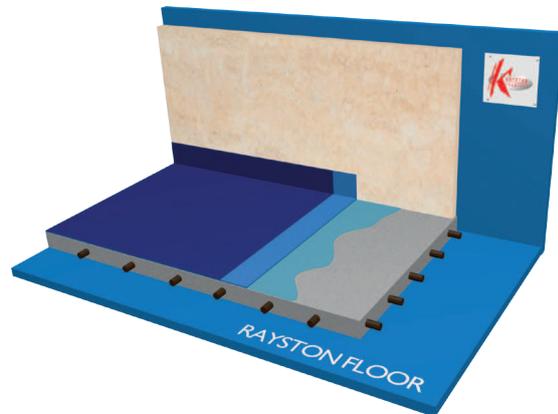
Water based, two-component, based on epoxy resins, pigmented, with rough finish for protection of concrete surfaces and pavements.

MOST COMMON APPLICATIONS:

The Rayston Floor EP20 W system is an ideal choice for covering industrial premises, warehouses, markets, food industry...

ADVANTAGES:

- Excellent adhesion to concrete, mortar and stone supports.
- Good chemical resistance.
- Waterproof and non-porous.
- Wide range of colors.
- Anti-slip finish



SYSTEM STEPS System thickness 2,5-2,8 mm

PRIMER	EP Multilayer aqua First layer diluted 10-15% with water EP Multilayer aqua Second layer, pure Sand broadcast wet layer	0,2 Kg/m ² 0,2-0,25 Kg/m ² 0,5-0,7 Kg/m ²
SURFACE COATING	EP Multilayer aqua/sand (0,1-0,3mm 0,5/1,5) Sand Broadcast (0,3-0,8 mm NEUTRAL)	2 Kg/m ² 3 kg/m ³
TOP COAT	EP Aquacoat color/sand (0-0,3 mm 1/0,8) EP Aquacoat color	0,38 Kg/m ² 0,15 Kg/m ²

* Recommended primings 

* Primer H (0,2 - 0,25 Kg/m²) 

CERTIFICATES

EP MULTILAYER AQUA

TYPE OF TESTS	
Applus+	CE Mark - UNE-EN 13813:2003
	Resistance to adhesion, UNE-EN 13892-8: 2003
	Impact resistance, UNE-EN ISO 6272-1:2012
	Wear resistance BCA, UNE-EN 13892-4: 2003
	Determination of slip / slip resistance value of unpolished pavements (USRV). UNE-ENV 12633: 2003
Determination of slip / slip resistance value of unpolished pavements (USRV). UNE-ENV 12633: 2003 with antislip Additive	
FCBA	PAVIFLEX + COLODUR ECO classement de la réaction au feu - EN 13501-1 : 2007

EP AQUACOAT

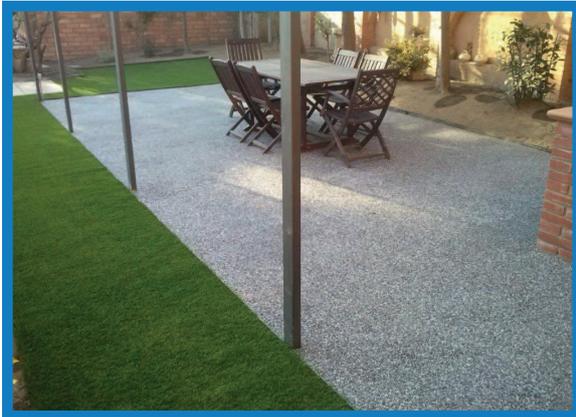
TYPE OF TESTS	
Applus+	CE Mark - UNE-EN 13813:2003
	Resistance to adhesion, UNE-EN 13892-8: 2003
	Impact resistance, UNE-EN ISO 6272-1:2012
	Wear resistance BCA, UNE-EN 13892-4: 2003
	Determination of slip / slip resistance value Of unpolished pavements (USRV). UNE-ENV 12633: 2003
aitex	Classification reaction to fire of floor coverings UNE-EN 13501-1: 2007 + A1: 2010

The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products. The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.



RAYSTON MORTAR SYSTEMS

OUR PROJECTS WITH RAYSTON MORTAR SYSTEMS



Rayston Floor PU40 DECO EXT
Private garden - Tarragona, Spain



Rayston Floor PU40 SAFETY
Playground - Granada, Spain



Rayston Floor PU40 SAFETY
Sports track - Alicante, Spain

RAYSTON FLOOR PU40 DECO EXT

DESCRIPTION:

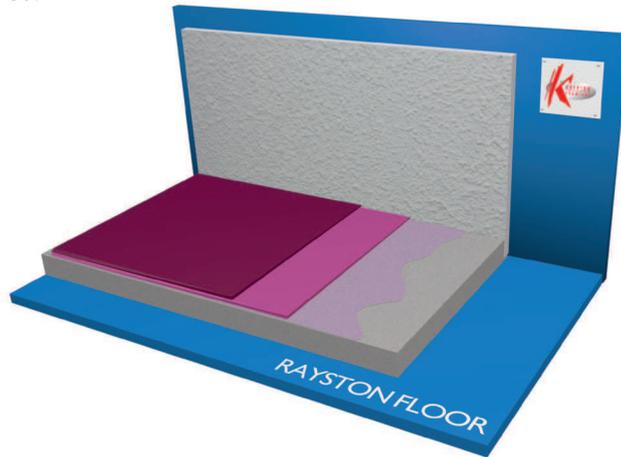
One-component, 100% aliphatic solids, based on polyurethane resins, for the protection of concrete surfaces and pavements, with the addition of crushed marble.

MOST COMMON APPLICATIONS

The Rayston Floor PU 40 DECO EXT system is an ideal choice for floor coverings in offices such as design offices, garden decoration, commercial premises.

ADVANTAGES:

- Excellent adhesion to oncrete, mortar and stone supports.
- Product without solvents.
- Easy to clean.
- Good resistance to abrasion.
- Low maintenance.
- Drain.



SYSTEM STEPS

Pedestrian traffic:

PRIMER

Rayston Prim PU 100

0,1-0,2 Kg/m²

Recommended primers

INTERMEDIATE LAYER

Pavistone 1k

Pavistone 1k mixed in 6% by weight on the crushed marble stone of size 2-6mm

0,92 Kg/m²

Marble crushed stones

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

17 Kg/m²



TOP COAT

Floor Top 1k

0,15-0,2 Kg/m²

Approximate thickness of the system 10.2 mm

Vehicular traffic:

PRIMER

Rayston Prim PU 100

0,1-0,2 Kg/m²

Recommended primers*

INTERMEDIATE LAYER

Pavistone 2k UV (aliphatic version)**

Pavistone 2k UV (aliphatic version) mixed in 5% by weight on the stone previously dosed in the different sizes 1-3 / 3-6mm in relation to 50/50 crushed marble.

1,7 Kg/m²

Marble crushed stones

34 Kg/m²



TOP COAT

Floor Top 1k

0,15-0,2 Kg/m²

For a minimum thickness of 20mm, on firm support

* Other primers consult with the technical department
** Possibility of applying Pavistone 2k aromatic version.

The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.

RAYSTON FLOOR PU40 SAFE

DESCRIPTION:

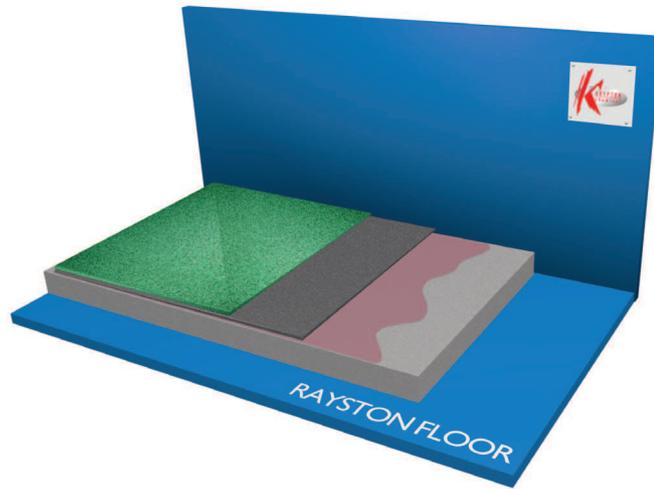
Monocomponent aliphatic system, 100% solids, based on polyurethane resins, for the protection of concrete surfaces and pavements, with the SBR or EPDM aggregate.

MOST COMMON APPLICATIONS:

The Rayston Floor PU 40 SAFETY system is an ideal choice for floor coverings in forks, decorative floors, garden areas.

ADVANTAGES:

- Excellent adhesion to concrete, mortar and stone supports.
- Solvent free.
- Easy to clean.
- Good resistance to abrasion.
- Low maintenance.
- Continuous application.
- Custom designs.



SYSTEM STEPS System thickness 40 mm For other thicknesses consult the technical department.

PRIMER <small>Recommended primers</small>	Primer TP Flex 100	0,1-0,2 Kg/m ²
INTERMEDIATE LAYER	Rubber Binder rubber mixed in 15% by weight on the SBR of granulometry 2-7mm	3,12 Kg/m ²
	SBR , recycling 2-7mm	20,88 Kg/m ²
TOP COAT	Aliphatic rubber binder Binder aliphatic rubber mixed in 21% by weight on the EPDM of granulometry 1-4mm.	1,5 Kg/m ²
	EPDM, Color according to price list	7,2 Kg/m ²



The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.

RAYSTON SYSTEMS – KRYPTON CHEMICAL SL

Pol. Ind. Les Tàpies - C/Martí I Franquès, 12 - 43890 L'Hospitalet de l'Infant - Tarragona - Spain
T. +34 977 822 245 - F. +34 977 823 977 - rayston@kryptonchemical.com - www.kryptonchemical.com

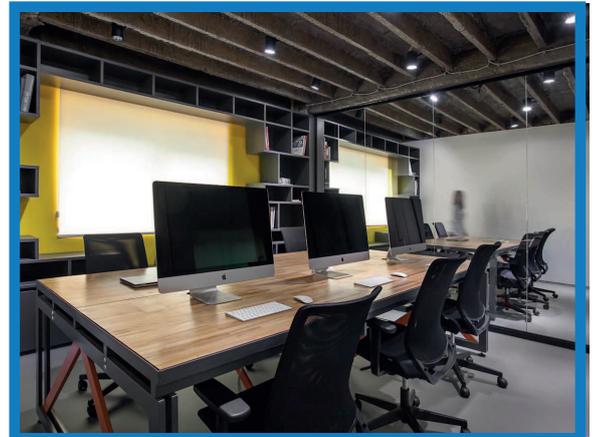


RAYSTON SELF-LEVELLING SYSTEMS

OUR PROJECTS WITH RAYSTON SELF-LEVELLING SYSTEMS



Rayston Floor PU30 FLEX
Sports centre - Tarragona, Spain



Rayston Floor EP30
Office - Macedonia



Rayston Floor PU30
Warehouse - Vila-seca, Spain



Rayston Floor PU30 COMFORT
Training rooms - Tarragona, Spain



RAYSTON FLOOR EP30

DESCRIPTION:

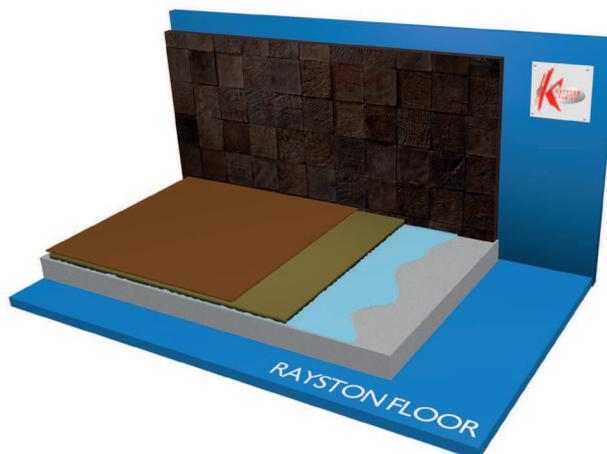
Two-component system, 100% solids, based on epoxy resin, pigmented, with aliphatic and smooth finish, for the protection of concrete surfaces and pavements.

MOST COMMON APPLICATIONS:

The Rayston Floor EP30 system is an ideal choice for coverings industrial premises, warehouses, shops, offices...

ADVANTAGES:

- Excellent adhesion to concrete mortar and stone supports.
- Good chemical resistance.
- Waterproof and non-porous.
- Very easy to clean
- Wide range of colors.



SYSTEM STEPS System thickness 2,9 - 3,1 mm

PRIMER



Primer EP 100

First layer diluted 10-15% with Rayston solvent

0,2-0,25Kg/m²

Primer EP 100

Second layer, pure

0,2-0,25Kg/m²

Sand broadcast on wet layer (0,3 - 0,8 mm)
(optional)

0,5-0,7 Kg/m²

INTERMEDIATE LAYER



EP Nivel 1:0.5

For each kg of resin incorporate 0.5kg of sand 0,1-0,3mm

3 Kg/m²

TOP COAT

(optional)**



Colodur ECO***

Colodur ECO***

For anti-slip finishes in the last layer incorporate anti slip additive 5-7% max. 90 micron version and 15% approx. for the 700 micron version. In this case, a special roller is used to coat the pore nbr:3

0,2-0,25 Kg/m²

0,2-0,25 Kg/m²

** For each sealing options consult the technical department

*** Colorless version (gloss or matt) or Pigment (gloss). Consumptions vary depending of the finishing. Consult FT.

CERTIFICATES

EP NIVEL

TYPE OF TESTS	
	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 slip / slip resistance value Of unpolished pavements (USRV). UNE-ENV 12633: 2003
	Classement de la réaction au feu - EN 13501-1 : 2007

COLODUR ECO

TYPE OF TEST		
	Abrasion Taber	- Determination of the resistance to slippage / slippage of pavements Unpolished (USRV). UNE-ENV 12633: 2003, Annex A. SELF-LEVELLING FLOORS FOR FLOORS, UNE-EN 13813: 2003 1- Resistance to adhesion, UNE-EN 13892-8: 2003 2-Determination of the value of the slip / slippage of the unpolished floor (USRV). UNE-ENV 12633: 2003, Annex A. 3- Impact resistance, UNE-EN ISO 6272-1: 2012 4- Wear resistance BCA, UNE-EN 13892-4: 2003 Indoor air: VOC emission Unpolished (USRV). UNE-ENV 12633: 2003, Annex A.
	Slip Resistance	
	- Resistance to Abrasion TABER according to UNE 48250 standard	
	- Scratch resistance according to UNE EN ISO 1518 standard	
	- Resistance to liquids (engine and diesel oil) according to UNE EN ISO 2812-3 and UNE EN ISO 2812-4	
	- Resistance to contact staining Vulcanized rubber	
	- Determination of brightness according to standard UNE EN ISO 2813	
	- Colorimetric determination (CIELAB coordinates) according to UNE standard 48073	
	- Determination of whiteness index and yellow index according to ASTM E 313	
	- Test of accelerated artificial aging in the open air	
EPOXI to compare data with Colodur Eco		

The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.

RAYSTON FLOOR PU30

DESCRIPTION:

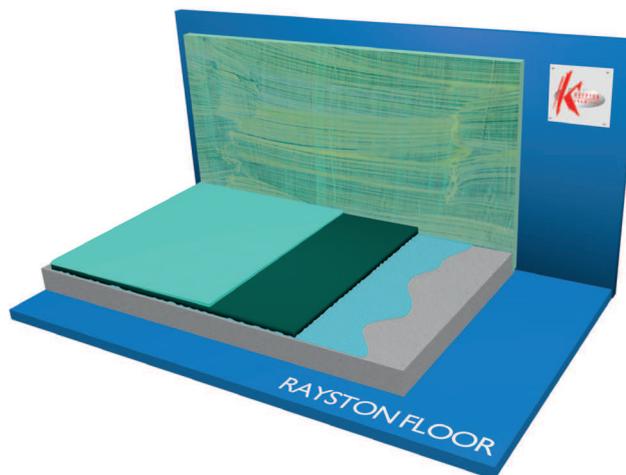
Two-component system, 100% solids, based on pigmented polyurethane resins, for the protection of concrete surfaces and floors.

MOST COMMON APPLICATIONS:

The Rayston Floor PU30 system is an ideal choice for covering industrial premises, warehouses, shops, factories.

ADVANTAGES:

- Excellent adhesion to concrete mortar and stone supports.
- Solvent free.
- Waterproof and non-porous.
- Very easy to clean
- Good resistance to abrasion.
- Good resistance to compression and impact.
- Wide range of colors.



SYSTEM STEPS System thickness 2,6-2,8 mm* For other sealing options consult the technical department.

PRIMER	Primer EP 100	0,2-0,25Kg/m ²
	First layer diluted 10-15% with solvent Rayston	
	Primer EP 100	0,2-0,25Kg/m ²
	Second layer, pure	
	(optional) Sand broadcast on wet layer (0,3 - 0,8 mm)	0,5-0,7 Kg/m ²
INTERMEDIATE LAYER	Pavifloor	3 Kg/m ²
TOP COAT*	Colodur ECO**	0,2-0,25 Kg/m ²
	Colodur ECO**	0,2-0,25 Kg/m ²

For anti-slip finishes in the last layer incorporate anti slip additive 5-7% max. 9 micron version and 15% approx. for the 700 micron version. In this case, a special roller is used to coat the pore nbr3

** Colorless (gloss or matt) or Pigmented (gloss). Consumptions vary depending of the finishing. Consult FT.

CERTIFICATES

PAVIFLOOR

TYPE OF TESTS	
	CE mark - UNE-EN 13813:2003
	Abrasion Taber
	Laboratorio Frances PAVIFLOOR+COLODUR ECO+CHIPS Rapport de Classement de la Réaction au Feu - EN 13501-1 : 2007
	Rapport d'Essais

COLODUR ECO

TYPE OF TEST	
	Abrasion Taber
	Slip Resistance
	- Resistance to Abrasion TABER according to UNE 48250 standard
	- Scratch resistance according to UNE EN ISO 1518 standard
	- Resistance to liquids (engine and diesel oil) according to UNE EN ISO 2812-3 and UNE EN ISO 2812-4
	- Resistance to contact staining Vulcanized rubber
	- Determination of brightness according to standard UNE EN ISO 2813
	- Colorimetric determination (CIELAB coordinates) according to UNE standard 48073
	- Determination of whiteness index and yellow index according to ASTM E 313
	- Test of accelerated artificial aging in the open air
EPOXI to compare data with Colodur Eco	
- Determination of the resistance to slippage / slippage of pavements Unpolished (USRV). UNE-ENV 12633: 2003, Annex A. SELF-LEVELING FLOORS FOR FLOORS, UNE-EN 13813: 2003 1- Resistance to adhesion, UNE-EN 13892-8: 2003 2-Determination of the value of the slip / slippage of the unpolished floor (USRV). UNE-ENV 12633: 2003, Annex A. 3- Impact resistance, UNE-EN ISO 6272-1: 2012 4- Wear resistance BCA, UNE-EN 13892-4: 2003 Indoor air: VOC emission Unpolished (USRV). UNE-ENV 12633: 2003, Annex A.	

The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.

RAYSTON SYSTEMS - KRYPTON CHEMICAL SL

Pol. Ind. Les Tàpies - C/Martí I Franquès, 12 - 43890 L'Hospitalet de l'Infant - Tarragona Spain
T. +34 902 908 062 - F. +34 977 823 977 - rayston@kryptonchemical.com - www.kryptonchemical.com

RAYSTON FLOOR PU30 FLEX

DESCRIPTION:

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

MOST COMMON APPLICATIONS:

The Rayston Floor PU30 FLEX system is an ideal choice for covering commercial premises, warehouses, shops, offices, cold rooms.

ADVANTAGES:

- Excellent adhesion to concrete mortar and stone supports.
- Solvent free.
- Waterproof and non-porous.
- Very easy to clean
- Good resistance to abrasion.
- Good resistance to compression and impact.
- Wide range of colors.



SYSTEM STEPS System thickness 2,6 - 2,8 mm

PRIMER 	Primer EP 100 First layer diluted 10-15% with Rayston solvent	0,2-0,25Kg/m ²
	Primer EP 100 Second layer, pure	0,2-0,25Kg/m ²
	(optional) Sand broadcast on wet layer (0,3 - 0,8 mm)	0,5-0,7 Kg/m ²
INTERMEDIATE LAYER 	Paviflex	3 Kg/m ²
TOP COAT* 	Colodur ECO**	0,2-0,25 Kg/m ²
	Colodur ECO** For anti-slip finishes in the last layer incorporate anti slip additive 5-7% max. 9 micron version and 15% approx. for the 700 micron version. In this case, a special roller is used to coat the pore nbr.3	0,2-0,25 Kg/m ²

** For other sealing options consult the technical department

*** Colorless version (gloss or matt) or Pigmented (gloss). Consumptions vary depending of the finishing. Consult FT.

CERTIFICATES

PAVIFLEX

TYPE OF TESTS	
	CE mark - UNE-EN 13813:2003
	Abrasion Taber
	PAVIFLEX + COLODUR ECO classement de la réaction au feu - EN 13501-1 : 2007
	PAVIFLEX SPORT (with rubber mat) Synthetic sports floor (resins) Indoor multipurpose 1. Reduction of forces (dry) according to UNE-EN 14808: 2006. 2. Resistance to slip (dry) according to UNE-EN 13036-4: 2004. 3. Resistance to the rolling load according to UNE-EN 1569: 2000. * 4. Abrasion resistance according to UNE-EN ISO 5470-1: 1999. *

COLODUR ECO

TYPE OF TEST		
	Abrasion Taber	- Determination of the resistance to slippage / slippage of pavements Unpolished (USRV). UNE-ENV 12633: 2003, Annex A. SELF-LEVELING FLOORS FOR FLOORS, UNE-EN 13813: 2003 1- Resistance to adhesion, UNE-EN 13892-8: 2003 2-Determination of the value of the slip / slippage of the unpolished floor (USRV). UNE-ENV 12633: 2003, Annex A. 3- Impact resistance, UNE-EN ISO 6272-1: 2012 4- Wear resistance BCA, UNE-EN 13892-4: 2003 Indoor air: VOC emission Unpolished (USRV). UNE-ENV 12633: 2003, Annex A.
	Slip Resistance	
	- Resistance to Abrasion TABER according to UNE 48250 standard	
	- Scratch resistance according to UNE EN ISO 1518 standard	
	- Resistance to liquids (engine and diesel oil) according to UNE EN ISO 2812-3 and UNE EN ISO 2812-4	
	- Resistance to contact staining Vulcanized rubber	
	- Determination of brightness according to standard UNE EN ISO 2813	
	- Colorimetric determination (CIELAB coordinates) according to UNE standard 48073	
	- Determination of whiteness index and yellow index according to ASTM E 313	
	- Test of accelerated artificial aging in the open air	
EPOXI to compare data with Colodur Eco		

The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.

RAYSTON SYTEMS - KRYPTON CHEMICAL SL

Pol. Ind. Les Tàpies - C/Martí I Franquès, 12 - 43890 L'Hospitalet de l'Infant - Tarragona Spain
T. +34 902 908 062 - F. +34 977 823 977 - rayston@kryptonchemical.com - www.kryptonchemical.com

RAYSTON FLOOR PU30 FLEX DECO

DESCRIPTION:

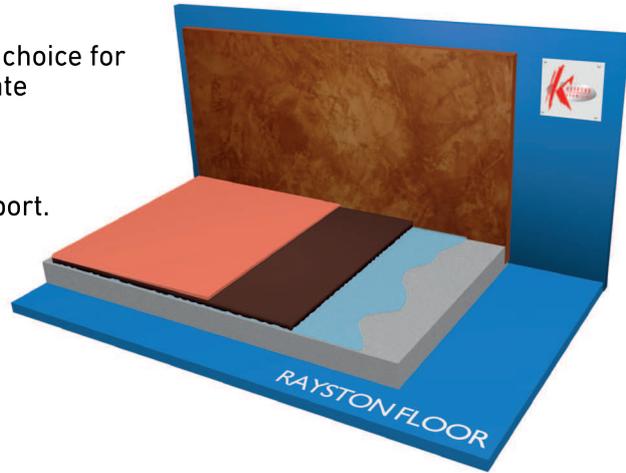
Two-component system, 100% solids, based on pigmented polyurethane resins, with a smooth finish, used as a self-leveling coating for the protection of concrete surfaces and pavements.

MOST COMMON APPLICATIONS:

The Rayston Floor PU30 FLEX DECO system is an ideal choice for covering commercial premises, shops, offices, corporate buildings.

ADVANTAGES:

- Excellent adhesion to concrete mortar and stone support.
- Solvent free.
- Waterproof and non-porous.
- Very easy to clean
- Good resistance to abrasion.
- Good resistance to compression and impact.
- Wide range of colors.
- Custom design
- Comfortable and resistant to movements and cracks



SYSTEM STEPS System thickness 2,6 - 2,8 mm

PRIMER 	Primer EP 100 First layer diluted 10-15% with Rayston solvent	0,2-0,25Kg/m ²
	Primer EP 100 Second layer, pure	0,2-0,25Kg/m ²
	(optional) Sand broadcast on wet layer (0,3 - 0,8 mm)	0,5-0,7 Kg/m ²
INTERMEDIATE LAYER 	Paviflex A	3 Kg/m ²
TOP COAT* 	Colodur ECO**	0,2-0,25 Kg/m ²
	Colodur ECO**	0,2-0,25 Kg/m ²

* For other sealing options consult the technical department.

** Colorless version (gloss or mate). Consumptions vary depending of the finishing. Consult FT.

CERTIFICATES

COLODUR ECO

TYPE OF TEST	
	Abrasion Taber Slip Resistance - Resistance to Abrasion TABER according to UNE 48250 standard - Scratch resistance according to UNE EN ISO 1518 standard - Resistance to liquids (engine and diesel oil) according to UNE EN ISO 2812-3 and UNE EN ISO 2812-4 - Resistance to contact staining Vulcanized rubber - Determination of brightness according to standard UNE EN ISO 2813 - Colorimetric determination (CIELAB coordinates) according to UNE standard 48073 - Determination of whiteness index and yellow index according to ASTM E 313 - Test of accelerated artificial aging in the open air
	- Determination of the resistance to slippage / slippage of pavements Unpolished (USRV). UNE-ENV 12633: 2003, Annex A.
	SELF-LEVELLING FLOORS FOR FLOORS, UNE-EN 13813: 2003 1- Resistance to adhesion, UNE-EN 13892-8: 2003 2-Determination of the value of the slip / slippage of the unpolished floor (USRV). UNE-ENV 12633: 2003, Annex A.
	3- Impact resistance, UNE-EN ISO 6272-1: 2012 4- Wear resistance BCA, UNE-EN 13892-4: 2003
	Indoor air: VOC emission Unpolished (USRV). UNE-ENV 12633: 2003, Annex A.
	EPOXI to compare data with Colodur Eco



The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.

RAYSTON SYSTEMS - KRYPTON CHEMICAL SL

Pol. Ind. Les Tàpies - C/Martí I Franqués, 12 - 43890 L'Hospitalet de l'Infant - Tarragona Spain
T. +34 977 822 245 - F. +34 977 823 977 - rayston@kryptonchemical.com - www.kryptonchemical.com



RAYSTON FLOOR PU30 COMFORT

DESCRIPTION:

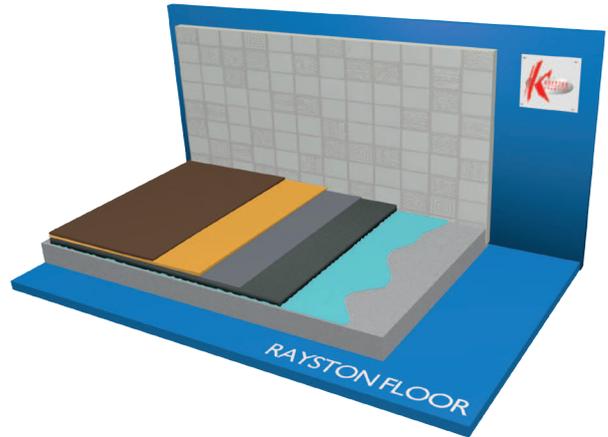
Two-component system, 100% solids, based on pigmented polyurethane resins, with smooth finish, with a rubber sheet incorporated in the base of the system to create a comfortable system.

MOST COMMON APPLICATIONS:

The Rayston Floor PU30 COMFORT system is an ideal choice for coverings kindergartens, sports halls, schools...

ADVANTAGES:

- Excellent adhesion to concrete mortar and stone supports.
- Solvent free.
- Waterproof and non-porous.
- Very easy to clean
- Good resistance to abrasion.
- Good resistance to compression and impact.
- Wide range of colors.



SYSTEM STEPS System thickness 5-12,6 (according to the rubber mat used)

PRIMER	Primer EP 100 First layer diluted 10-13% with solvent Rayston Second layer, pure	0,2-0,25 Kg/m ² 0,2-0,25 Kg/m ²
ADHESIVE <small>Recommended adhesive*</small>	ADHESIVE Adhesive PU 2k	0,3-0,4 Kg/m ²
RUBBER PLUS LAYER	A special blend of cellular rubber and recycled tire rubber, provides superior shock absorption and reduces athletes injuries. Available in thicknesses of 4,5,6,7,8,9 and 10mm	
RUBBER SEALING COAT	Paviflex with 1-2% additive thickener	0,8-1,0 Kg/m ²
SELF-LEVELLING LAYER	Paviflex	2,8-3,0 Kg/m ²
TOP COAT***	Colodur ECO** Colodur ECO** <small>For anti-slip finishes in the last layer incorporate anti slip additive 5-7% max. 9 micron version and 15% approx. for the 700 micron version. In this case, a special roller is used to coat the pore nbr.3</small>	0,2-0,25 Kg/m ² 0,2-0,25 Kg/m ²

*Another option of adhesive can be the Adhesive PU 1K with a provision of 0.3-0.4 kg/m²
** Gloss, Satin or Mate version. Consumptions vary depending of the finishing. Consult FT.
*** For each sealing options consult the technical department

CERTIFICATES

PAVIFLEX

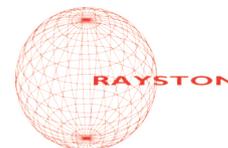
TYPE OF TESTS	
	CE mark - UNE-EN 13813:2003 Abrasion Taber
	PAVIFLEX + COLODUR ECO classement de la réaction au feu - EN 13501-1 : 2007
	PAVIFLEX SPORT (with rubber mat) Synthetic sports floor (resins) Indoor multipurpose 1. Reduction of forces (dry) according to UNE-EN 14808: 2006. 2. Resistance to slip (dry) according to UNE-EN 13036-4: 2004. 3. Resistance to the rolling load according to UNE-EN 1569: 2000. * 4. Abrasion resistance according to UNE-EN ISO 5470-1: 1999. *

COLODUR ECO

TYPE OF TEST	
	Abrasion Taber Slip Resistance - Resistance to Abrasion TABER according to UNE 48250 standard - Scratch resistance according to UNE EN ISO 1518 standard - Resistance to liquids (engine and diesel oil) according to UNE EN ISO 2812-3 and UNE EN ISO 2812-4 - Resistance to contact staining Vulcanized rubber - Determination of brightness according to standard UNE EN ISO 2813 - Colorimetric determination (CIELAB coordinates) according to UNE standard 48073 - Determination of whiteness index and yellow index according to ASTM E 313 - Test of accelerated artificial aging in the open air
	- Determination of the resistance to slippage / slippage of pavements Unpolished (USRV). UNE-ENV 12633: 2003, Annex A. SELF-LEVELING FLOORS FOR FLOORS, UNE-EN 13813: 2003 1- Resistance to adhesion, UNE-EN 13892-8: 2003 2-Determination of the value of the slip / slippage of the unpolished floor (USRV). UNE-ENV 12633: 2003, Annex A. 3- Impact resistance, UNE-EN ISO 6272-1: 2012 4- Wear resistance BCA, UNE-EN 13892-4: 2003
	Indoor air: VOC emission Unpolished (USRV). UNE-ENV 12633: 2003, Annex A. EPOXI to compare data with Colodur Eco

The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.



RAYSTON FLOOR PUC 30

DESCRIPTION:

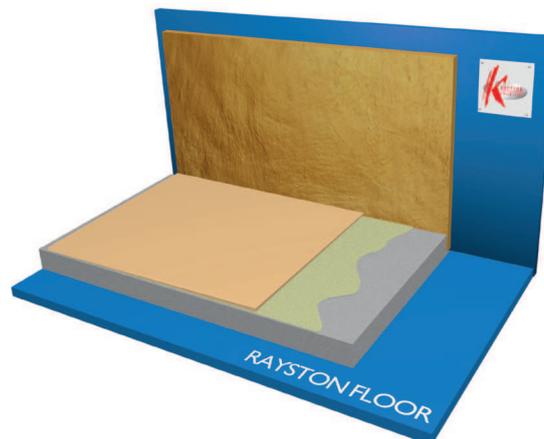
Tri-component system of polyurethane cement, 100% solid, pigmented, for the protection of concrete surfaces and pavements such as canning, frozen.

MOST COMMON APPLICATIONS:

The Rayston Floor PUC 30 system is an ideal choice for coverings industrial kitchens, heavy duty canneries, etc.

ADVANTAGES:

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



SYSTEM STEPS

System thickness: 4,75 mm. For other thicknesses, consult the technical department

PRIMER <small>Recommended primers</small>	Raycrete SL	1,5-2,0 Kg/m²
		
MAIN LAYER	Raycrete SL	6 Kg/m²
		
TOP COAT <small>Optional AntiSlip</small>	Sprinkle arid in cold (0,4-0,8mm) Raycrete SL	4 Kg/m² 1 Kg/m²

CERTIFICATES

RAYCRETE

	TYPE OF TEST
	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
	Determinación del valor de resistencia al deslizamiento/resbalamiento de los pavimentos sin pulir (USRV). UNE-ENV 12633:2003
	PASTAS AUTONIVELANTES PARA SUELOS, UNE-EN 13813:2014
	1- Resistencias a compresión y flexotracción, UNE-EN 13892-2:2003
	2- Determinación de las propiedades de flexión, UNE-EN ISO 178:2003.
	3- Determinación de la permeabilidad al agua líquida, UNE-EN 1062-3:2008
	4- Determinación de la dilatación térmica, UNE-EN 1770:1999
	5- Determinación de la permeabilidad al vapor de agua, UNE-EN 12086:2013
	CONTACTO ALIMENTARIO
	Clasificación de reacción al fuego según norma UNE-EN 13501 1:2007+A1:2010



The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products.

The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.

RAYSTON SYSTEMS - KRYPTON CHEMICAL SL

Pol. Ind. Les Tàpies - C/Martí I Franquès, 12 - 43890 L'Hospitalet de l'Infant - Tarragona - Spain
T. +34 902 908 062 - F. +34 977 823 977 - rayston@kryptonchemical.com - www.kryptonchemical.com



RAYSTON FLOOR PA 30 TECH

DESCRIPTION:

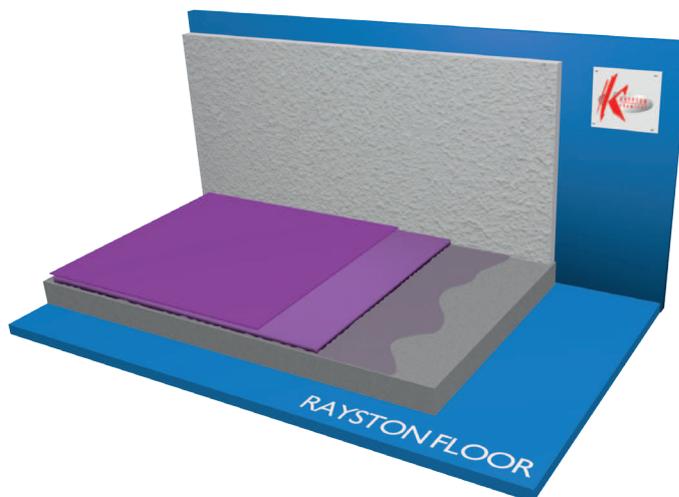
Two-component polyurea system, 100% solids, pigmented, with aliphatic and smooth finish for the protection of concrete surfaces and floors. such as car parks, industrial floors.

MOST COMMON APPLICATIONS:

The Rayston Floor PA 30 system is an ideal choice for covering industrial premises, warehouses, large areas...

ADVANTAGES:

- Excellent adhesion to concrete, mortar and stone supports.
- Ready to use a few hours after the application.
- Waterproof and non-porous.
- Very easy to clean
- Wide range of colors.



SYSTEM STEPS System thickness: 2-2,3 mm

PRIMER	<p>Primer EP 100 (diluted 10-15% with Rayston solvent)</p> <p>Primer EP 100 Second layer, pure</p> <p>(optional) Sand broadcast on wet layer (0,3 - 0,8 mm)</p>	<p>0,2-0,25 Kg/m²</p> <p>0,2-0,25 Kg/m²</p> <p>0,5-0,7 Kg/m²</p>
INTERMEDIATE LAYER	<p>Polyurea H SL</p>	<p>2 Kg/m²</p>
TOP COAT	<p>Colodur ECO**</p> <p>Colodur ECO**</p> <p>For anti-slip finishes in the last layer incorporate anti slip additive between 5-7% for the max. 9 micron version and 15% for the approx. 700 micron version. In this case, a special roller is used to coat the pore nbr.3</p>	<p>0,2-0,25 Kg/m²</p> <p>0,2-0,25 Kg/m²</p>

* Colorless version (Gloss, Matte or Satin) or Pigmented (gloss)
** For other sealing options consult the technical department

CERTIFICATES

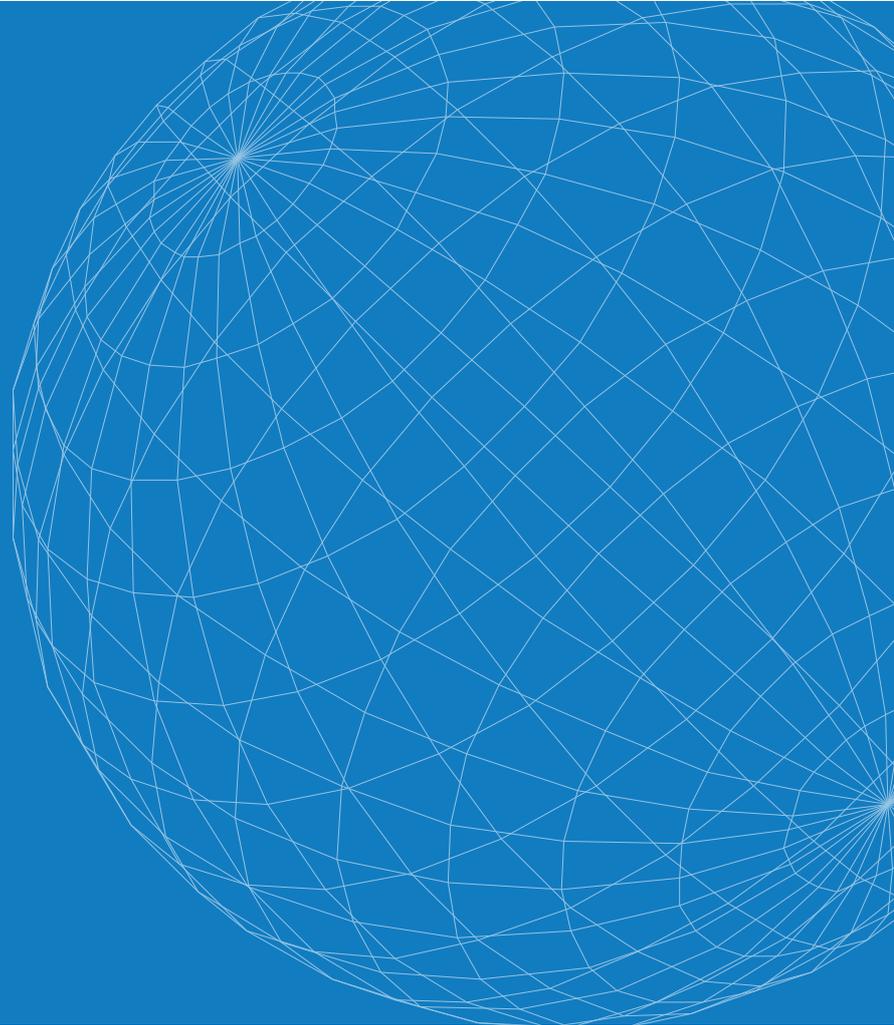
COLODUR ECO

TYPE OF TEST

Applus+	Abrasion Taber	- Determination of the resistance to slippage / slippage of pavements Unpolished (USRV). UNE-ENV 12633: 2003, Annex A.
	Slip Resistance	SELF-LEVELING FLOORS FOR FLOORS, UNE-EN 13813: 2003
	- Resistance to Abrasion TABER according to UNE 48250 standard	1- Resistance to adhesion, UNE-EN 13892-8: 2003
	- Scratch resistance according to UNE EN ISO 1518 standard	2-Determination of the value of the slip / slippage of the unpolished floor (USRV). UNE-ENV 12633: 2003, Annex A.
	- Resistance to liquids (engine and diesel oil) according to UNE EN ISO 2812-3 and UNE EN ISO 2812-4	3- Impact resistance, UNE-EN ISO 6272-1: 2012
	- Resistance to contact staining Vulcanized rubber	4- Wear resistance BCA, UNE-EN 13892-4: 2003
- Determination of brightness according to standard UNE EN ISO 2813	Indoor air: VOC emission Unpolished (USRV). UNE-ENV 12633: 2003, Annex A.	
- Colorimetric determination (CIELAB coordinates) according to UNE standard 48073		
- Determination of whiteness index and yellow index according to ASTM E 313		
- Test of accelerated artificial aging in the open air		
EPOXI to compare data with Colodur Eco		



The different products must be chosen based on the needs of the support and the conditions of the work. For more information, consult the technical data sheets of Rayston products. The information contained in this data sheet, as well as our advice, both written and verbally or by means of tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories. They will not serve as a guarantee for the applicator, who will have to take them as merely orientative references and with strictly informative value. All our systems and product datasheets are updated regularly. It is the customer's responsibility to obtain the most recent version.



KRYPTON CHEMICAL S.L.
Pol. Industrial Les Tàpies, C/ Martí i Franquès 10-20
43890 L'Hospitalet de l'Infant Tarragona SPAIN
Telf. +34 977 822 245
rayston@kryptonchemical.com
www.kryptonchemical.com

