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KRION™ THE SOLID SURFACE FROM PORCELANOSA GROUP

KRION[™] is a new generation solid surface developed by SYSTEMPOOL, a company that belongs to PORCELANOSA Group.

It is a material that is warm to the touch and similar to natural stone. It is made of two-thirds natural minerals (ATH – aluminium trihydride) and a low percentage of high-resistance resins. This composition gives KRIONTM a number of exclusive features: it does not have any pores, it is anti-bacterial without any type of additive, it is hard-wearing, highly resistant and easy to repair, only requires minimum maintenance and is easy to clean.

It is shaped in a similar way to wood, making it possible to cut the sheets, connect them and thermoform them to create curved sections, and can even be injection moulded to create designs and projects that are impossible with other materials.

Seamless sections can be created, preventing liquids from being absorbed and making cleaning and maintenance easier.

We offer a wide range of colours, including a white finish that stands out for its purity and neutrality in comparison with other similar materials.

It is an ecological material, as it is 100% recyclable. All products made of KRION[™] can be reprocessed and reused in the production cycle.







KISN® PORCELANOSA SOLID SURFACE THE NEW GENERATION



Mineral compact



Ecological / 100% Recyclable



Antibacterial



High durability



Non porous / Hygienic



Resistant to UV radiation



CO) Seamless



Easy to clean



Thermoformable



Mineral compact.













KRION[™], THE NEW GENERATION SOLID SURFACE

KRION[™] adds new technical features to the family of Solid Surfaces, offering a completely innovative range of possibilities for application.

In particular, it is highly resistant to fire, has extreme weatherability and can be processed in 3-D moulds, which makes KRION™ a multi-purpose product, capable of being adapted to all types of projects and satisfying the most demanding requirements.

It is important for professionals to fully understand all of the benefits that KRION[™] offers, in order to make the very most of this ideal material for the Contract market.

Limitless shapes

The exclusive formula of KRIONTM and the latest developments in production processes mean that KRIONTM can be injected in moulds to create 3-D designs.

KRION[™] sheets are thermoformable, making it possible to create curves and gently arching radii using this method.

Seamless. Invisible joints

KRION[™] sheets and sections can be bonded together using chemical welding kits with the same material used to make KRION[™] products, thus guaranteeing the continuity of the physical and chemical properties of the KRION[™] in the joints.

Ultra-white

KRION[™] Stone offers a degree of whiteness over 99.8%, which in combination with its high refraction index provides a pure, brilliant white that is unique among existing solid surfaces.

Highly resistant to fire

The KRION™ product range is considered to be practically fireproof as it does not allow fire to spread. It is classified according to the UNE-EN 13501 standard as Euroclass B-s1-d0, where the values indicate:

A1, A2, B Non-combustible and limited combustible materials. Over 20 minutes to flashover.

s1 Low smoke production.

d0 No burning droplets.

Resistant to sunlight

KRION™ is a product that is extraordinarily resistant to deterioration caused by UV radiation. The most stable colour is white; please consult the manufacturer for information on other colours.

Resistant to extreme environments

KRION[™] surfaces are capable of withstanding extreme environments, such as marine environments, exposure to steam, immersion in water or freezing conditions, amongst others.

Sustainability

KRIONTM is an ecological material, as it is 100% recyclable. Any product made of KRIONTM can be reprocessed and used again in its production process.

Highly resistant to chemical attack

The material's resistance to chemical attack makes it ideal for use in laboratories, professional facilities and in all types of applications where it is necessary to easily return the surface to its original condition without effort.

Easy to clean

Any normal stain, superficial burn, graffiti or marker pen stain can be removed, immediately returning the surface to its original appearance simply by following the recommended cleaning instructions.

Food grade

KRIONTM is a food-grade product and meets US and European standards, meaning it can be used in contact with foodstuffs.

Colours

KRION[™] is available in an extensive range of more than 90 colours. Special or corporate colours can also be created for projects that exceed the minimum quantities required.

Backlighting

KRION[™] Lux can be used to create backlit spaces. By combining different thicknesses of the material, it is possible to create spectacular lighting effects.

Hygienic. Anti-bacterial

KRION[™] does not allow bacteria or fungi to grow or spread. This is an intrinsic property of the composition of the material, without the need for additives to achieve this permanent effect. This makes it an ideal material for locations with demanding hygiene and sanitation requirements, such as operating theatres or clean rooms.

10-year guarantee

KRION™ offers a 10-year limited guarantee for completed projects.



LIMITLESS SHAPES

The excellent reception KRION[™] has had in the main Contract projects at international level is a result of all of the properties and possibilities the material offers designers to bring their ideas to life, without forfeiting any aspects of the project.

Bathroom elements.

3-D Wall panels.

Furniture.

Unique items.

THE POTENTIAL FOR KRION[™] AS A CONTRACT MATERIAL IS MULTIPLIED THANKS TO THE POSSIBILITY OF CREATING 3-D SHAPES USING INJECTION MOULDS WITH MINIMUM DESIGN LIMITATIONS.

HOTELS

Its extensive design possibilities make it possible to create spaces from hotel lobbies through to room elements, including furnishings, decoration or bathroom fixtures.

KRION[™] also offers a wide range of possibilities for spa areas thanks to its non-porous surface and anti-bacterial properties.

Backlighting to create warm, welcoming environments.

Easy maintenance.

Made-to-measure items.

Exclusiveness and design.

SPAS, SWIMMING POOLS, SAUNAS OR TURKISH BATHS ARE JUST SOME OF THE ELEMENTS THAT CAN BE CREATED WITH THIS VERSATILE MATERIAL.





HEALTHCARE

KRION[™] is an ideal material for use in healthcare centres. Thanks to its anti-bacterial properties and additive-free composition, it is recommended for use in consulting rooms or wards, curing stations or even operating theatres, where optimum hygiene conditions are essential.

Also, the possibility of chemically welding the sheets together and curving them makes it possible to create continuous, seamless surfaces, without joints or corners where microorganisms can accumulate.

Seamless.

Anti-bacterial without additives.

Easy maintenance.

Minimum water absorption rate.



KRION[™] EXCEEDS THE CRITERIA OF THE US ASTM G 21 AND THE EUROPEAN UNE-EN ISO 846 STANDARDS.















COMMERCIAL SPACES

KRION[™] offers infinite possibilities for the design of commercial spaces, and is a key element in creating brand awareness and presenting products in the best possible way.

KRION[™] offers infinite possibilities for commercial decoration, with an extensive palette of more than 90 colours and the ability to connect sheets and curve them, to obtain genuine combinations of colours and ergonomic shapes.

Backlighting and signage.

Wide range of colours.

Curved, made-to-measure items.

Furniture.

Exclusiveness and design.

SPECIFIC CURVE RADII CAN BE OBTAINED B Y APPLYING HEAT AND PRESSURE FOR A SPECIFIC PERIOD OF TIME IN ORDER TO ACHIEVE THE REQUIRED SHAPE.

RESTAURANTS

The comfort and warmth of KRION[™] make it an ideal material for use in interior design projects for the catering trade sector. It is particularly suitable for use in restaurants as it is easy to clean and only requires minimum maintenance. Its durability, the possibility of shaping it to obtain any type of design and its anti-bacterial qualities mean it can be used for practically any type of application.

Backlighting for bars and areas.

Food grade.

Industrial kitchens.

Curved, resistant items.

Furniture.

Exclusiveness and design.



SOLID SURFACES ARE THE OPTION PREFERRED BY THE MAIN INTERNATIONAL FRANCHISES, AS DIFFERENT ELEMENTS CAN BE UNIFORMLY INTEGRATED.













PUBLIC PREMISES

KRION[™] is specially suited for public spaces used by large numbers of people. It meets the maximum hygiene requirements for installation in public bathrooms and other public areas. As a material that is non-porous and easy to clean and repair in situ, it is ideal for continuous use in public areas, and is highly resistant to acts of vandalism.

Hygienic.

Anti-graffiti.

Resistant.

Reparable.

Easy maintenance.



EVEN WHEN AFFECTED BY SERIOUS STAINS, THE MATERIAL CAN BE RETURNED TO ITS ORIGINAL APPEARANCE SIMPLY BY FOLLOWING THE RECOMMENDED CLEANING INSTRUCTIONS.







KITCHENS

Its extraordinary chemical resistance, together with its high resistance to heat and its hygienic properties, make KRION[™] the material of choice for the most demanding kitchen projects, making it possible to create seamless designs in exclusive formats.

Seamless.

Limitless shapes.

Plain and stone-effect finishes.

Integrated sinks.



KRION[™] EXCEEDS THE REQUIREMENTS OF DIRECTIVE 2002/72/EC AND RD 118/2003 FOR USE IN CONTACT WITH FOODSTUFFS.

BATHROOMS

The development of KRION[™] is closely linked with the world of bathrooms. PORCELANOSA Grupo has led this sector for years thanks to the use of this multi-purpose material.

From baths, shower trays and enclosures through to washbasins and bathroom furniture can be made using KRION™, offering the maximum guarantees in terms of hygiene, preventing microorganisms from developing and making it possible to create uncluttered designs.

Contract projects for bathrooms.

Integrated seamless washbasins.

Baths, shower trays and countertops.

Easy maintenance.



THE LATEST ADVANCES IN PRODUCTION PROCESSES MAKE IT POSSIBLE TO INJECT THE MATERIAL TO CREATE COMPLEX SHAPES.













VENTILATED FAÇADES

Architects have found KRIONTM to be the perfect formula to make each project genuine and authentic. Facades are a clear example of this.

Behind KRION™ designers will find a specialised, experienced team in the creation of ventilated facades, who will take charge of the project from the planning stage through to construction, guaranteeing the work carried out.

Unique projects.

A very high degree of whiteness.

Large formats.

Quick installation.

ITS DEMONSTRATED RESISTANCE TO ADVERSE WEATHER CONDITIONS, COMBINED WITH THE DEVELOPMENT OF HIGH-TECH ANCHORING SYSTEMS BY BUTECH[™], MAKE IT POSSIBLE TO USE KRION[™] ON VENTILATED FAÇADES.

WALL COVERINGS

The STONE and LUX versions are the ideal solution for interior wall coverings. Both come in sheets up to 3.6 metres long, in more than 90 different colours available in the KRION[™] palette of finishes.

The material can be used for flat or curved walls by using thermoforming, eliminating joints between sections to achieve a continuous surface.

Seamless.

Curved transitions.

Lattices.

Indoor & Outdoor.

KRION[™] OFFERS AN EXTREMELY PURE, NEUTRAL AND BRILLIANT WHITE THAT STANDS OUT FROM ALL OTHER SIMILAR SOLID SURFACES.





EXTERIORS

Few materials can match the weatherability of KRION[™] over time. This property, combined with the different processing possibilities offered by KRION[™] make it ideal for designing outstanding, long-lasting items.

Urban furniture.

Ships.

Façades.

Limitless shapes.

KRION[™] IS EXTREMELY RESISTANT TO DETERIORATION CAUSED BY UV RADIATION. THE MOST STABLE COLOUR IS WHITE; PLEASE CONSULT THE MANUFACTURER FOR DETAILS ON OTHER COLOURS.









BERSHKA GRUPO INDITEX (ISTANBUL, TURKEY)



BERSHKA GRUPO INDITEX (BOLONIA, ITALY)



INSTITUT D'OPTIQUE D'AQUITAINE (TALENCE, FRANCE)



ESCUELA DOGA KOL (ISTANBUL, TURKEY)



BERSHKA GRUPO INDITEX (MADRID, SPAIN)



PLAZA CIUDADES HERMANADAS (VALLADOLID, SPAIN)



RAFINITY RENDER-CONSTRUCCIÓN (CASABLANCA, MOROCCO)



RADISSON BLU MALL OF AMERICA (MINNESOTA, USA)



CLÍNICA DENTAL ORTEGA & CUBILLO (GRANADA, SPAIN)



A-CERO IN (MADRID, SPAIN)



HOTEL MELIA WHITE HOUSE (LONDRES, ENGLAND)



AC / MARRIOTT HOTEL CUZCO (MADRID, SPAIN)



GERHARDT BRAUN GALLERY (MALLORCA, SPAIN)



HI PANDA STORE (PARIS, FRANCE)



HOTEL GRAN MELIÁ DON PEPE (MÁLAGA, SPAIN)



IBEROSTAR GRAND HOTEL MENCEY (SANTA CRUZ DE TENERIFE, SPAIN)



RESTAURANTE LA TÉRMICA (ALMERÍA, SPAIN)



HOTEL TABURIENTE (SANTA CRUZ DE TENERIFE, SPAIN)



IMAGINE LOUNGE BAR (MURCIA, SPAIN)



RESTAURANTE TABLANCA (SALAMANCA, SPAIN)



OCEAN CLUB (SALAMANCA, SPAIN)



JOGO - FROZEN YOGUR BAR (FINLAND)



MISS SUSHI (VALENCIA, SPAIN)



RESTAURANTE BAMBÚ (SALAMANCA, SPAIN)



CAFÉ & BILLAR BALABUSHKA (SALAMANCA, SPAIN)



ARTESPRESSO (VALENCIA, SPAIN)



CLUB METROPOLITAN ATALAYAS (MURCIA, SPAIN)



LOFT (PHILADELPHIA, USA)



CASINO CIRSA VALENCIA (VALENCIA, SPAIN)



CENTRO COMERCIAL MUELLE UNO (MÁLAGA, SPAIN)



GIMNASIO PONIENTE (CORDOBA, SPAIN)



COCINA (MURCIA, SPAIN)

TECHNICAL FEATURES

Property	Method	Units	Result KRION® STONE (11 mm)	Result KRION® LUX (12 mm)
Density	DIN ISO 1183	g/cm ³	1,787 - 1,800	1,710 - 1,746
Flexural modulus	DIN EN ISO 178	MPa	9786 - 9894	9260 - 9834
Flexural strength	DIN EN ISO 178	MPa	52,3 - 54, 7	68,1 - 73,4
Elongation at break	DIN EN ISO 178	%	0,55 - 0,59	1,08 - 1,12
Compressive strength	EN ISO 604	MPa	111 - 115	97 - 101,2
Impact resistance (spring load)	DIN ISO 4586 T11	Ν	> 25	>25
Impact resistance (ball drop)	ISO 19712	Ball 324 g/2 m	DOES NOT break (>130 cm)	DOES NOT break (>190 cm)
Surface hardness (Mohs index)	DIN EN 101		3	3
Resistance to surface wear (use)	DIN ISO 4586 T6	% mass / 100 rev.	0,148	0,11
		mm ³ / 100 rev.	82	64
Resistance to boiling water - increase in weight	DIN ISO 4586 T7	% weight	0,1 - 0,3	0 - 0,25
Resistance to bacteria and fungi	DIN EN ISO 846		Does not support microbial growth	Does not support microbial growth
Dimensional stability at 20 °C	DIN ISO 4586 T10	% change in length	0,01 (90% HR and 23% HR)	0,02 (90% HR) and 0,08 (23% HR)
Resistance to dry heat - 180 °C	ISO 19712-2	4	Slight change in gloss/colour	Slight change in gloss/colour
Lightfastness (Xenon arc)	DIN ISO 4586 T16	"Blue wool"	> 6	> 6
Anti-slip properties	UNE-ENV 12633:2003 (USRV)	Grit less than 120	CLASS 2	CLASS 1
Anti-slip properties with 40 grit	UNE ENV 12633:2003	Rd (roughness)	58. CLASS 3 (wet and greasy areas)	40. CLASS 2 (wet and greasy areas)
Anti-slip properties with 80 grit	UNE ENV 12633:2003	Rd (roughness)	52. CLASS 3 (wet indoor areas)	38. CLASS 2 (wet indoor areas)
Anti-slip properties with 100 grit	UNE ENV 12633:2003	Rd (roughness)	45. CLASS 2 (wet indoor areas)	36. CLASS 2 (wet indoor areas)
Anti-slip properties with 120 grit	UNE ENV 12633:2003	Rd (roughness)	28. CLASS 1 (wet indoor areas)	22. CLASS 1 (wet indoor areas)
Anti-slip properties with 320 grit	UNE ENV 12633:2003	Rd (roughness)	20. CLASS 1 (wet indoor areas)	14. CLASS 0 (wet indoor areas)
Volume resistivity	UNE 21-303:1983	Ωm	> 5,1 x 10 ¹⁰	>5,1 x 10 ¹⁰
Surface resistivity	UNE 21-303:1983	Ω	579,1 x 10 ^{.9}	>1 x 10 ⁻⁹
Smoke index	NF F 16-101		Class F0	Class F0
Reaction to fire	EN 13501-1:2003		Euroclass B, s1, d0	Euroclass B, s1, d0
Thermal conductivity	UNE 1267 (2002)	W / m²	q = 113,1	q = 113,1
	UNE 1267 (2002)	m² . K / W	R < 0,05	R = 0,05
	UNE 1267 (2002)	W / m . K	λ aprox. 0,428	$\lambda = 0,396$
 Thermal shock resistance (90 - 20 °C)	ISO 19712-2 (sheet)	250 cycles	Satisfactory	Satisfactory
 Thermal shock resistance (65 - 10°C)	ISO 19712-3 (shape)	500 cycles	Satisfactory	Satisfactory
			-	-