Welcome

GMGR PRESENTS..

Carefully selected modern & eco-friendly products are ready to shine in your projects

3M DI-NOC™ 3M Fasara™ fitwall™ MINERAL DECORATIVE PANELS ALLUSLATE®

KRION® K·LIFE Coverlux™

OUR STORY

Established in 1889, as a steel trading firm in Delhi, the Company shifted its focus towards plumbing products after India's Independence. The GMGR brand is recognized all over the country, particularly in North India as the major concentration area.

We, GMGR have introduced a New Generation Solid Surface in India, KRION. We are associated with surfacing industry since 1998, started with DU PONT CORIAN in North India from 1998 to 2010, followed by Samsung STARON till 2018.

Being a long-time player in Solid Surfacing Material, GMGR brings a plethora of experience in choosing best resources, designing and successful installation of projects. Our work standards can be observed at Indira Gandhi International Airport, New Delhi, Chhatrapati Shivaji International Airport – Mumbai, Devyani Group Food Court – Hyderabad, SAP-Bangalore, NOKIA – Bangalore, and KPMG - Bangalore and at many more.

KRION

PORCELANOSA Grupo

PORCELANOSA

TILE / KITCHEN / BATH / HARDWOOD

krion
PORCELANOSA Grupo

The Solid Surface from Group Porcelanosa.

A material designed for kitchens ,bathroom , interior decoration , restaurants and public space … **SYSTEMPOOL** manufactures and sell the materials in extensive range of formats and finishes , so that each processor can create anything they are capable of imagining.

LEARNING OBJECTIVES

Understanding solid surface composition, manufacturing process, formats and colors

Key issues about solid surface performance aesthetics, safety, functionality, durability and sustainability

Tips when designing & specifying solid surface

Know all the posible applications & potential sectors for solid surfacing

understanding solid surface

composition, manufacturing process, formats and colors

COMPOSITION

Solid Surface is composed of **two thirds natural minerals** (**ATH: Alumina Trihydrate**) and a low percentage of **high resistance resins**.
This composition gives solid surface exclusive characteristics: absence of pores, antibacterial without any kind of additive, hardness, resistance, durability, easy to repair, low maintenance and easy cleaning.

USE OF SUSTAINABLE MATERIALS WITH LOW ENVIRONMENTAL IMPACT

-Created with **two thirds microscopic alumina powder** (7 microns on average) and one third advanced monomers.

-Includes **exclusive additives** developed by our R&D department.

-The alumina trihydrate (ATH) used is extracted from the mineral known as Bauxite and refined before being used, reaching up to **99.8% purity.**

NATURE INSPIRATION

MANUFACTURING PROCESS

MANUFACTURE

Solid Surface
SHEETS
Bespoke designs

Solid Surface
VOLUMETRIC SHAPES

A. Mixing

MMA
PMMA
Natural Mineral
(Bauxite)
Standard
ATH
70%
30%
ATH
Quality
Acrylic
Resin
Exclusive Additives
Pigments
Particles "Chips"
PRIMARY
MIXING
FINAL
MIXING
CASTING*

B1. Continuous Casting Process

C1. Continuous Finished Industrial Process

FORMATS
&
COLORS

SLAB COLORS

SNOW Series
COLORS Series
COLORS+ Series
LIGHT Series
NATURE Series
STAR Series
ROYAL Series
ROYAL + Series
TERRAZZO Series
LUXURY Series
ART VEINS Series
OPALE Series
MATERIA Series

CAST pieces

UNIQUE Series
SLIDE Series
3-WAY Series
BASIC Series
SLANT Series

Basins
Shower bases
Bathtub bases
Bathroom basins
ADA basins
Kitchen sinks
Laboratory sinks

key issues about solid surface performance

aesthetics, safety, accesibility and sustainability

Ultra-white

High compressive resistance

Resistant to impacts

Resistant to solar radiation

Low thermal conductivity

High bending strength

Food grade

Imperceptible joints

Thermoformable

High chemical resistance

Low weight

Resistant to extreme atmospheric conditions

Backlighting

100% recyclable

Provides sound insulation

High mineral composition

High resistance to fire

Non-porous

AESTHETICS

Related properties

SAFETY

FUNCTIONALITY

DURABILITY

SUSTAINABILITY

Benefits-

Ultra white - **Krion** offers an extremely pure, neutral and brilliant white that stands out from other similar solid surface.

Seamless – Thanks to the **Krion** chemical welding kit, two sheet can be joints together . These joints are made using the same materials of liquid forms, means they are seamless.

Fireproof – Thanks to its compositions. **Krion** is practically fireproof material that does not allow fire to spread.

Repairable – Thanks to **Krion** chemical welding kits, we can repair any **Krion** features and leave it as good as new .

Anti-bacterial – Krion is hypoallergenic , anti bacterial materials , thanks to it completely additive-free composition . Other materials on the market achieve this by adding biocides. Over time, bacteria can become immune to these added chemical biocides.

Manufactured using moulds – The exclusive formula of **Krion** and the latest development in product process mean that **Krion** can injected to create complex design.

Ecological – Krion is an environmentally friendly with low chemical emissions . Certified as complying with international standard that guarantee its suitability for interior use , even the most sensitive area use by children.

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

Resistant to extreme environments – **Krion** has been proven resistance to adverse weather conditions, no porosity , an easy to clean the surface , and it can be repair in situ, it is the ideal choice communal area subject to continual use and , even offering a high resistance to vandalism.

Highly resistance to chemical products – The materials resistance to chemical attack make it ideal for use in laboratories , professional primases and domestic settings.

Easy to clean – Any serve stain or superficial burn can be removed , immediately and returning the surface to its original appearance by following the recommended cleaning instructions.

Food grade – Krion meet the requirements of the **UNE-EN ISO 1186** standard it is food grade .

Thermoformable – With **Krion** we can obtain specific curvatures by applying heat and force of specific period of time **.**

Colours – Krion is available in a total of 83 colours, making it extremely versatile materials.

Translucent – Krion can be use to create backlit spaces , as it is transparent material. By combining different thickness and type of **Krion** sheet. It is possible to create wide range of lighting effects .

10 Years Guarantee – System pool offers a limited 10 years guarantee for all decorative features **in int**erior products made of **Krion** sheet. See guarantee for further information.

Ultra White

The material enjoys **some levels of whiteness** that are unusual in other materials. These levels are considered very close to what is understood as the theorical perfect White.

Thermoformable

Sheets are thermoformable, allowing curves and forms of different smooth radius to be generated through this technique.

With Solid Surface **we can obtain specific curve radius by applying heat and force for a certain time**.

- Allows organic design.
- 3D forms are possible.
- The minimum permitted radius for thermocurving varies by colour.

Backlighting

Solid surface allows backlit atmospheres to be created. Combining different thicknesses of the material, spectacular lighting effects can be created.

Seamless

Continuous surfaces with imperceptible joints

One of the great advantages of Solid Surface compared with other materials is the possibility of creating large surfaces without perceptible joints, with a continuity which is both aesthetic (as it allows the creation of exclusive designs made as though from a single piece) and functional (as joints are eliminated, helping to maintain **hygiene** in installations in a much easier and more effective way).

Resistant to extreme environments

Excellent behaviour against extreme environments and solar radiation.

The composition makes it a material with high performance against solar radiation, non porous and therefore without water absorption.

AESTHETICS

SAFETY

Related properties

FUNCTIONALITY

DURABILITY

SUSTAINABILITY

Non-porous

Non-porous material with high resistance to chemical agents, including strong, aggressive cleaning agents.

Solid Surface is a non porous material, thereby facilitating the non-accumulation of bacteria. This property makes it ideal for environments with high requirements of health and hygiene, such as operating theatres and cleanrooms.

Mechanical properties

Solid surface's resistance to bending prevents cracks from occurring due to surface tension or impacts.

The material has high bending strength which makes it more resistant for fabrication and transportation purposes.

73 Mpa

Resistant to impacts

Endurance against breaking of the material due to falling objects. The intrinsic properties of the material, provided by the combination of its exclusive raw materials, we achieve **a material with high mechanical resistance.**

Food grade

Thanks to its exclusive formulation, its anti-bacterial characteristics and the possibility of installations without joints, the material offers a high level of hygiene and asepsis of surfaces made with it.

Safety and Hygiene. Particularly suitable for areas where fresh food is prepared such as counters of fishmongers, butchers, delis, etc.

The NSF (National Science Foundation) certification, recognized organization of the USA, considers our material as a safe material for direct contact with food

Sound insulation

Solid Surface has a few intrinsec physical features that make it into a material with a high **Acoustic Reduction Index** rising to 33,5 dBA, according to a accredited laboratory tests and in accordance with ISO 717-1:2013

33.5 dBA

High fire resistance

The high percentage of minerals in the composition of our material makes a product which prevents the spread of fire, without any kind of halogenated additive, producing a light smoke without toxic gases in case of burning.

EuroclaseB-s1-d0
B Very limited contribution to fire.
S1 Low opacity of smoke
D0 No release of flaming articles.
USA ClassA
A Very limited contribution to fire.
Norma DIN 4102-1
B1 Very limited contribution to fire.

INTERNATIONAL MARITIME ORGANIZATION

Low thermal conductivity

Using it on surfaces or coverings contributes to the energy efficiency of any room, worktop or façade .

0,19 W/mK

Conductivity similar to wood | ISO 12667

0.19 W/m²

Non toxic

A series of tests which guarantee the material is not harmful to living organisms, including tests on organisms that are present in land an aquatic ecosystems (such as plants, fish etc)

AESTHETICS

SAFETY

FUNCTIONALITY

accesibility & bespoke designs

DURABILITY

SUSTAINABILITY

Freedom of designs

Solid Surface offers the possibility of creating a differentiated and innovative brand image.

In addition to its seamless connection properties (creating large sized homogeneous surfaces), its capacity for thermoforming (allowing the creation of many kinds of curved structures), the possibility of creating customised solid Surface pieces directly from moulds is a source of solutions applied to bathroom fittings, curved skirting boards, pillars or curved corners, among other applications.

Additional pieces by casting

The exclusive formulation of KRION® allows additional pieces to be produced by casting, which connected to sheets by imperceptible joints achieve sensational continuous compositions.

ADA
Americans with Disabilities Act

AESTHETICS

SAFETY

FUNCTIONALITY

DURABILITY
related properties

SUSTAINABILITY

Easy to clean

Maintenance is simple for this kind of solid surface, reducing maintenance times.

Being a **non-porous material**, it can be given a surface finish ranging from matte to polished, **with high resistance to chemical agents**, including strong, aggressive cleaning agents

The possibility of making sanitary joints means that the solid surface is always **free of dirtiness and fungi which are harmful to health**.

Resistant over time and regenerable

Solid surface suffers very little wear over time and is resistant to scratches and cuts. Being a **full mass material, homogeneous throughout its thickness, in case of more serious damage, can be repaired** or regenerated by a professional, leaving it in its original state without full replacement of the element.

EASY MAINTENANCE

Due to its innate characteristics, solid surfaces are ideal for practically all kinds of applications.
Being a non porous material, with infinite options of surface finish, high resistance to chemical agents, including strong and aggressive cleaning agents.

Solid Surface is practically inert to the action of any kind of chemical product.

AESTHETICS

SAFETY

FUNCTIONALITY

DURABILITY

SUSTAINABILITY
related properties

Composition with a high mineral content

This material is made up of **two thirds natural minerals** and a low percentage of high resistance resin.

Prevents the growth of microorganisms

Solid surface does **not allow the proliferation or growth of bacteria or fungi on its surface**; this property is intrinsic to the composition of the material and does not require additional additives to achieve this permanent effect.

100% recyclable

Process through wich the left-over offcuts of production are used to create and produce new designs up to **40% recycled content.**

ecocycle®

Made with up to 43% recycled material.

ACTIVE SOLID SURFACE photocatalytic properties

Actively contributes, directly and immediately in the spaces where it is used, improving the purchase experience of the partner or client

Ultra-white

High compressive resistance

Resistant to impacts

Resistant to solar radiation

Low thermal conductivity

High bending strength

Food grade

Imperceptible joints

Thermoformable

High chemical resistance

Low weight

Resistant to extreme atmospheric conditions

Backlighting

100% reciclable

Provides sound insulation

High mineral composition

High resistance to fire

Non-porous

+

Air purification

Elimination of chemical products

Bactericide

Easy to clean

Air purification

ISO 22197-1::2007

Chemical degradation:

- Nitrogen oxides (NOx),
- Sulphur oxides (Sox)
- volatile Organic compounds (VOCs).

Bactericide

ISO 27447:2009

Thanks to the new solid surface Eco-Active technology, not only can bacteria not grow in the material, but when coming into contact with the surface of the active material the bacteria is eliminated.

Elimination of chemical products

ISO 10678:2010

A large number of compounds that are dangerous to our health have been eliminated, such as pesticides present in our surroundings, and especially in the foods we consume.

Easy to clean

ISO 27448:2009

The liquids and dirt can be cleaned from the surface of the material with greater ease, reducing the use of detergents.

WORLD GREEN BUILDING COUNCIL

gmgr

GREEN & HEALTHY BUILDINGS

Declare.

EMISSIONS DANS L'AIR INTERIEUR A+

dap cons

CERTIFIED RECYCLED CONTENT

Health Product DECLARATION

BPA FREE

GREENGUARD

REACH COMPLIANCE

ECO PLATFORM EPD EN 15804 VERIFIED

LEED v4.1

U.S. GREEN BUILDING COUNCIL LEED USGBC

WELL v1

INTERNATIONAL WELL BUILDING INSTITUTE™

SOCIAL COMMITMENT

Product certifications

Contribution to Green Building Certifications

LEED v4.1

Sustainable Sites

SS Reduction of heat islands

Indoor Environmental Quality

IEQ p3 Minimum acoustic performance

IEQ c9 Acoustic performance

IEQ c2 Low emitting materials

Innovation

ID c4 Innovation

Energy & Atmosphere

EA p2 Minimum energy performance

EA c1 Energy performance optimization

Materials & Resources

MR p2 Waste management

MR c1 Bulding life cycle impact

MR c2 Building product disclosure & optimization, EPD

MR c3 Building product disclosure & optimization, Raw materials

MR c4 Building product disclosure & optimization, HPD

Contribution to Green Building Certifications

tips when designing and specifying solid surfacing

type of finish, expansion joints, backlighting and fixings

Thicknesses Different applications

Every solid surface thickness is recommended for a different application.

1/8"

Door and furniture coating without imperceptible joints

1/4"

Furniture and wall coatings

3/8"

Wall coatings and false ceilings

1/2"

Wall coatings, work surfaces, facades and furniture coating

3/4"

Self supporting elements

Every thickness has it own properly application

It is important to know the application of the solid surface to recommend the thickness with better performance

Sanded surface Different finishes

Every solid surface color can be given in any final finish: **matt, satin, gloss or high-glossed.** However, every color has a recommended finished.

- A matt finish is not recommended for plain dark colors, since it will not bring out the full intensity of the color.
- Work surfaces should be given a matt or satin finish because it makes everyday care of the surface much easier.

Matt

Satin

Gloss

Type of finish	Pale colours	Dark colours
Matt	P120	
	P180	
	P240	
	P320	
Satin	P120	P120
	P180	P180
	P240	P240
	P320	P320
	P400	P400
	500 sponge or 5800 fibre	500 sponge
		1000 sponge or 5800 fibre

Type of finish	Pale colours	Dark colours
Gloss	P120	
	P180	
	P240	
	P320	
	P320	
	P400	
	500 sponge	
	1000 sponge	
	2000 sponge	
	4000 sponge	

Every color can be sanded in all different finishes.

It is important to know the application of the solid surface to recommend the finish with better performance

Imperceptible Glued joints

Solid Surface can be glued with an **special adhesive** making the joint completely imperceptible.

The surface will be milled using property tools when the adhesive gets cried.

Male-Female joint

Butt joint

It is important to study the exact location of the imperceptible joints to know the better areas to do it.

This way, labour cost and waste material can be reduced to obtain a better budget

Expansion joints Open gap

Elements made with **solid surface may be modular**. The aesthetic may be reinforced using open joints between panels.

Those open joints **are needed in some areas, due to the expansion coefficient of the material**.

Despite the multitude of advantages of the possibility of creating imperceptible joints between pieces some designs require open joints for a safety purpose.

Supportings Chemical fixings

Solid Surface can be used over every kind of support, no matter **if it is vertical or horizontal, continous or not.**

Thanks to its own properties, **can be glued with an elastic adhesive over wood, plasterboard gypsum, metallic profiles, brick**.... ensuring an excellent performance.
In some cases, solid suface could be **attached directly to the support** (necessary a minimum gap between the two materials).

Cantilever
Depending on the sheet thickness

Chemical fixings does not allow the completely dissasembly of the element

Adhesive between materials has to be elastic one

Suspended assembly Mechanical fixings

Notable in the very **large repertoire of designs** which can be made with solid surface are designs which can be **assembled dry with mechanical fixing** .

Using pieces which are separate but **attached to one structure (through profiles and screws)** we obtain objects whose interior can be accessed.

Slab fixing points

Mechanical fixings make possible the whole reuse of the solid surface as a different element.

Very important to study the complete expansion of the substructure and the solid surface as an unique element

Backlighting Full mass or patterns

Surface can be **milled in the front or in the back side** to achieve backlighted patterns.

Minimum thickness advised

1/8''

Know all the possible applications and potential sectors

examples

Purpose of use -

Kitchens – Its extraordinary resistance of chemical agents (acids, solvents , marks etc..) together with its heat and UV resistance makes **Krion** and ideal materials for kitchens.

Bathrooms- Thanks to anti-bacterial features , limitless shapes that can be create and the wide colour of selection **Krion** increases the possibilities in the bathroom market .

Hotels – All the different room like the spa, gym and restaurant it can be easily produced with **Krion** .

Healthcare – Due to its 0% water absorption the anti bacterial features. **Krion** is ideal material for labour health environment. It can be also used in operating theatres.

Commercial areas – Krion offers infinity possibility to décor the commercial spaces with an extensive palette of 83 colours and the ability to connect sheets and curve them to obtain combinations of colours and ergonomic shapes.

Restaurants – The satisfaction of any restaurant is guaranteed by the warmth you can get from **Krion**.

Offices – For a contemporary and comfortable atmosphere **Krion** is the prefect fit**.**

Showrooms – Because of the 90 different colours we can reflect brand identity in all showrooms.

Public Space – Because of endless possibilities and wide range of colours , **Krion** can provide solution of any and space.

Ventilated Facades – There are different type of colours with excellent weather resistance properties. It is why they are great choice for the covering of the ventilated facades .

Applications

Commercial furniture and equipment

Applications

Applications

Applications

Applications

Catering and food display
furniture and equipment

Applications

Applications

Applications

Applications

Applications

Signage

Applications

Flooring
(selected colors & applications)

Applications

Industrial products

Commercial premises and supermarkets

Hotels

Restaurants,
bars and cafés

Offices and customer services desks

Healthcare facilities and laboratories

Public buildings and education centres

BEST
AIRPORT
2018
124
123
122
Transport

Homes

Designs

<u>Project</u>: Clarion Hotel **-**2500 Sqft NCR
First column cladding project in India.

Project: T-3 IGI Airport ,29385 Sqft Vanity application, NCR

Project: - T-3 IGI Airport ,Part work for 63 columns NCR

Project: PVR ,22500 Sqft Bangalore, Pune, Kochi, Udaipur ,Pvr Bluo – Bangalore NCR

Project: Cinepolis,36000 Sqft

- Bangalore , Vijayawada, bhuwenswar , NCR, Lucknow, Patna , Mumbai , Gurgaon, Ghaziabad

Project: Apollo tyre office ,500 Sqft NCR

Project: kosmo one 3500 Sqft Chennai

Project: Piramal House 59202 sqft ,Mumbai External facade

Some of our Creative projects

Designer chair

Iconic cup & saucer 3’X3’ for Barista

Complex 3D thermoform designer seating for Designer Vishal Dar

T.Mobile Store

Times Square / New York

T.Mobile Store

Times Square / New York

LSE Bridge

Bellevue / Washington

Private home loft

Philadelphia

M · DESIGNS ARCHITECTS

gm gr

Taafe residence

Los Altos / California

Private home

Gables States Club
Florida

Private home

Philadelphia

Eye Face Surgical Institute
Toronto

Envy Hotel

Boston

Radisson Blu Mall

Minneapolis

Radisson Blu Mall

Minneapolis

Ariad Pharmaceuticals

Boston

The Holy Spirit Catholic church

Las Vegas / Nevada

Soho Spa Club

New York

Troutman Sanders

Virginia

Noah bank

New York

Chicago Mercantile Exchange

Chicago

31 - 40
G
H

31 - 40
G
H

Certificates –

- Aenor ISO – 9001 certificate
- Aenor IQNET certificate
- Krion environmental statement
- NSF certificate Krion
- Certificate SCS minimum 6 % & 12 % recycled content
- Green guard certificate
- Green guard gold
- ISFA certificate
- Hospital use Krion
- Fire test Krion stone & Lux

Guarantee – Few Excerpts

- If SYSTEMPOOL is unable to repair or replace the Krion it considers to be defective as cover by the guarantee , SYSTEMPOOL will only pay of the purchase price according to the period of the time that has elapsed as details in paragraph 2 , within a period of 3 month of receiving notification of the defect and providing client returns products.
- SYSTEMPOOL provides a 10 years limited guarantee for all of its decorative features in interior, or product made using Krion sheets. All this installation and product must have been manufactured and installed according to the technical instructions issued by SYSTEMPOOL and by certificate Krion installer . This applied form the date when the product was installed for the first time. Unless otherwise demonstrated, this date will be as shown on the ticket bill of sale.

gmgr
Since 1889

SOME OF OUR PROMINENT CLIENTS

DLF Mall of India
The Great India Place
Cinépolis
PVR CINEMAS
DLF Emporio
MMI
AMITY INTERNATIONAL SCHOOL
LOOKS SALON
Banyan Tree
GEETANJALI SALON
Ahlcon International School
asian roots
Lancers International School
Lotus Valley School for Life
Microsoft
airtel
KPMG
GE Money
Canon
BT
The Oberoi
SAP
TATA
NOKIA
ORACLE
XL GROUP
Amway
GENPACT
JAYPEE HOTELS & RESORTS
BIBA
my
Indiabulls
AU Small Finance Bank
AMEX
worldpay
PIONEER
SAROVAR PORTICO
MOOLCHAND
Apollo
BLK
RBH JAIPUR
SANT PARMANAND HOSPITAL
ilbs
medanta
TAJ
DELHI METRO
Lucknow Airport
DELHI DUTY FREE
Chhatrapati Shivaji International Airport Mumbai
Kolkata
DELHI
GMR
pullman

THANK YOU

Since 1889

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