

Office & Workspace

Architectural Manual



Quartz Surfaces





<u>Radianz, simply being</u> around makes it special

Radianz was born out of the fusion of pure natural Quartz and Samsung's technological intelligence.

The name alone "Radianz" will enhances your quality.

To represent the natural feel of nature, the main component of Radianz is natural materials. High-quality Quartz brings depth to an interior.

Radianz Quartz is processed in a vacuum with no gaps for contamination and bacterial growth making it a hygienic material. In addition, contaminants can be easily removed with common household detergents. As easy to maintain material, Radianz is gaining

Radianz's main ingredient is hi-quality Natural Quartz with good surface hardness that rarely scratches. The hardness of a mineral is measured in Mohs scale. The mainraw material Quartz that is used in Radianz is "7", which is softer than a diamond (hardness 10) but is much harder than most natural stones and marbles (4-6) and is a strong,

RADIANZ, MAKES A SPECIAL SPACE

Radianz, creating a special space for you.

Radianz Quartz is made of pure 99.9% natural quartz as its main ingredient combined with unsaturated polyester resins and mineral pigments. It is fused together by a compression molding process to create an eco-friendly building material. It is scratch resistant and durable.

Radianz is resistant to contaminants making it an excellent material for counter tops, sinks, kitchen systems (kitchen furniture), and interior finishes. It is a premium material with excellent transparency and offers a luxurious natural texture and sophistication for interior spaces.





Samsung technology



STAIRWAY

Elegant spaces created by Radianz

Radianz is a robust material to use on stairsand floors of public spaces. It can reproduce the soft natural colors and is distinguished by its resistance to scratches, dust and fade over an extended period of time.



Samsung SDI Chemical in Korea



FLOOR

Elegant spaces created by Radianz

Radianz Quartz used as flooring material in publicspaces can simultaneously bring luxury and comfort to a space.

It is a handy material for lobbies, reception halls and dining rooms. In addition, the natural colors produce a beautiful atmosphere and the robustness of the product can resist scratches and contamination in high traffic spaces.

Yeosu EXPO Korean-Pavillion in Korea





Compressive strength (hardness)



Comparison of surface expansion

Radianz, when compared to a typical granite surfaces, is uniform and dense which helps to resist contamination and scratches.





RADIANZ

Granite



Samsung Electronics in Korea



Porch floor in Korea

HALL & LOBBY

Meet the comfortable spaces created by Radianz

Radianz Quartz is strong and durable and widely used as an interior wall or flooring material. It is manufactured by compression molding in a vacuum and is extremely dense and hard. It is close to "0" absorption and easy to clean. It is also stain resistant and is an effective material for interior environments of public facilities.



Seoul Metropolitan Government in Korea





Seoul Metropolitan Government in Korea





Samsunglife HQ in Korea







Ecoplex in Korea

🖹 WASHROOM

Pollutant resistant sanitary space created by Radianz

Radianz Quartz is manufactured in a vacuum that has almost no gaps. Contamination does not occur easily. The non-porous nature of the material resists any bacterial growth.

In addition, it is easy to maintain by using common house hold detergents with water to remove any surface contaminants. For facilities like public restrooms where there is exposure to a lot of traffic and can be difficult to manage, use Radianz to create a pleasant and sanitary environment.





Yeosu EXPO Korean-Pavillion in Korea

Water absorption

RADIANZ	0.05	
Granite		0.3
Marble		0.3

Le Rallye Hotel in France

Maintaining Radianz



How to remove contaminants

- Use non-abrasive household cleaners to wash off contaminants - Do not use abrasive cleaners or wax on the surface of Radianz. Otherwise, you may reduce the gloss on the surface.

• Cleaners that should not be used:

Cleaners for removing floor coatings, thinners, alkaline detergents, cleaners and waxes containing abrasives and strong chemicals (hydrochloric acid, sodium hydroxide, potassium hydroxide, etc) should not be used. If the mentioned items are found on this product, wash it off immediately with water.



How to remove water stains

- Use a soft cloth and household detergent to wipe the stains to get a clean.
- If the above method does not work, use a lime scale remover to clear the surface.
- Be cautious when rubbing the surface or wiping it with a heavily abrasive cloth.

Scratches can occur or you can affect the gloss.



• Prevent thermal shock

- Radianz Quartz has excellent heat resistance and does not affect the material if there is no direct heat applied to the surface (Heat at 150°C or less). However, instantaneous and direct heat, similar to natural stone products, can damage the surface. Keep flames from the stove away from the product, as well as, hot pots, clay pots and heated pedestals of cookware. Use placemats underneath hot cookware.



Scratch protection

- Radianz Quartz has harder surface than natural granite and does not scratch easily. But keep knives, iron sponges and rigid materials off the surface. When using a knife, use a chopping board.

Radianz product usage and specifications

- Residential : Kitchen furniture, counter tops, vanity tops, porches, floors and other interior finishings.
- Commercial : Counter tops, tables tops, bars, public halls floors, walls, stairs, and other interior finishings.

Thickness(mm)	Width(mm)	Length(mm)	Weight(kg)
20	1,520	3,100	235

Size (length) Please contact us for other product details.





Contaminants

- Ball point pen Marker Crayon
- Magic ink Juice Coffee
- Shoe polish Tea

Comparison of Radianz and granite

Radianz retains the colors and textures of natural Quartz. It is also an improved product quality with technical know-how, and enhances an interior space.

Distinction	RADIANZ	Granite	Marble
Contamination resistant	* * *	* *	*
Wear resistant	* * *	* * *	*
Chemical resistance	* * *	* *	*
Non-porous (particle gaps)	* * *	*	*
Flexural strength	* * *	* *	*
Color consistency	* * *	* *	*
Crack-free sheet condition	* * *	* * *	*
Easy to maintain	* * *	* *	*

★★★ : Excellent ★★ : Good ★ : Fair



If Radianz comes in contact with alkaline substances, there is a possibility it will stain. Be aware of substances that contain colorants which can contaminate the surface.

We conducted chemical tests on various surface contaminations prone to exist in Kitchen. These contaminants were dropped onto the surface and covered with glass plates for 16 hours. Surfaces of these areas were then scrubbed with damp pads with detergent and tested for the results.

Result

Most pollutants can be easily removed from the surface with damp pad with neutral detergent.

www.samsungradianz.com

SAMSUNG SDI CHEMICAL (USA), INC.

14251 E. Firestone Blvd. La Mirada, CA 90638 U.S.A. Tel : +1-562-926-5520, Fax : +1-562-926-9930 +1-800-795-7177

SAMSUNG SDI CHEMICAL EUROPE GMBH

Am Kronberger Hang 6, Samsung House D-65824, Schwalbach/Ts., Germany Tel : +49-6196-667-403, Fax : +49-6196-667-467 Free Hotline in Germany : 0800-1-782766

DUBAI OFFICE

Samsung SDI Chemical Europe Gmbh Dubai Rep. PO Box 48969 Flat No 2403, Al Shafar Tower 1, Tecom, Greens, Dubai, U.A.E. Tel : +971-4-447-3411, Fax : +971-4-447-3412

SHANGHAI OFFICE

Rm2701, Shanghai International Trade Center, 2201 West Yan an Rd, Shanghai, China, 200336 Tel : +86-21-62703000-856, Fax : +86-21-62756882

SAMSUNG SDI CHEMICAL (THAILAND) Co., Ltd.

16th Floor, Empire Tower, Unit 1602~1603, 195 South Sathorn Road, Yannawa, Sathorn, Bangkok 10120, Thailand Tel : +66-2-624-6737, Fax : +66-2-624-6780

HEAD OFFICE

332-2, Gocheon-Dong, Uiwang-Si, Gyeonggi-Do, Korea, 437-711 Tel : +82-31-596-3856, Fax : +82-31-596-3882