



SAMSUNG SDI

Hotel & Resort

Architectural Manual





Sheraton Grand Walkerhill Hotel in Korea

Radianz increases the quality of the hotel

A space where you can relax from the fatigue of travel in a luxurious atmosphere, Radianz is there with you.

Production of natural beauty

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

Pollution and hygiene

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 favor with many users.

Scratches

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 main raw 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, practical material.

Heat resistance

Radianz is 7% resin, but the remainder of the material is minerals so it has a high degree of heat resistance. However, avoid placing heated cooking utensils (clay pots, frying pans, metal pots etc) directly in contact with the surface. You must use a base or placemat.

Excellent physical properties

Radianz has flexural strength that is 2-3 times higher than granite and does not easily damage during processing or construction.

RADIANZ, MAKES A YOUR SPECIAL VACATION

For your special vacation, we strive for the best

Radianz Quartz is a high-quality building material made of natural Quartz fused with unsaturated polyester resins and mineral pigments. It is prepared through a compression molding process in a vacuum. It uses purity of 99.9% natural Quartz so the natural color and texture can be expressed. It is a premium material utilized by interior designers around the world.

Inviting the best customers to the hotel with excellent service, Radianz delivers the beauty of a special vacation.



BEDROOM

An elegant interior for the VIP's, Radianz

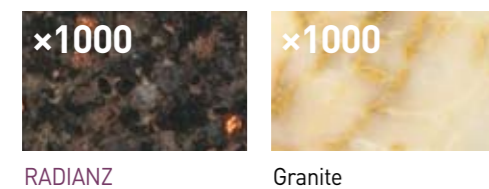
Reproducing the colors of natural stone, it is smooth and adds to creating a refined space. Modern hotels made with Radianz offers the guests a cozy atmosphere.

Compressive strength (hardness)

RADIANZ	1,800
Granite	1,500
Marble	1,250

Comparison of surface expansion

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



Sheraton Grand Walkerhill Hotel in Korea

FURNITURE

Dress the furnishings in elegance

Radianz is generally more durable than granite and marble therefore it does not easily damaged. Using Radianz in hotels and resorts where the highest quality service is delivered to many customers will only enhance their satisfaction.

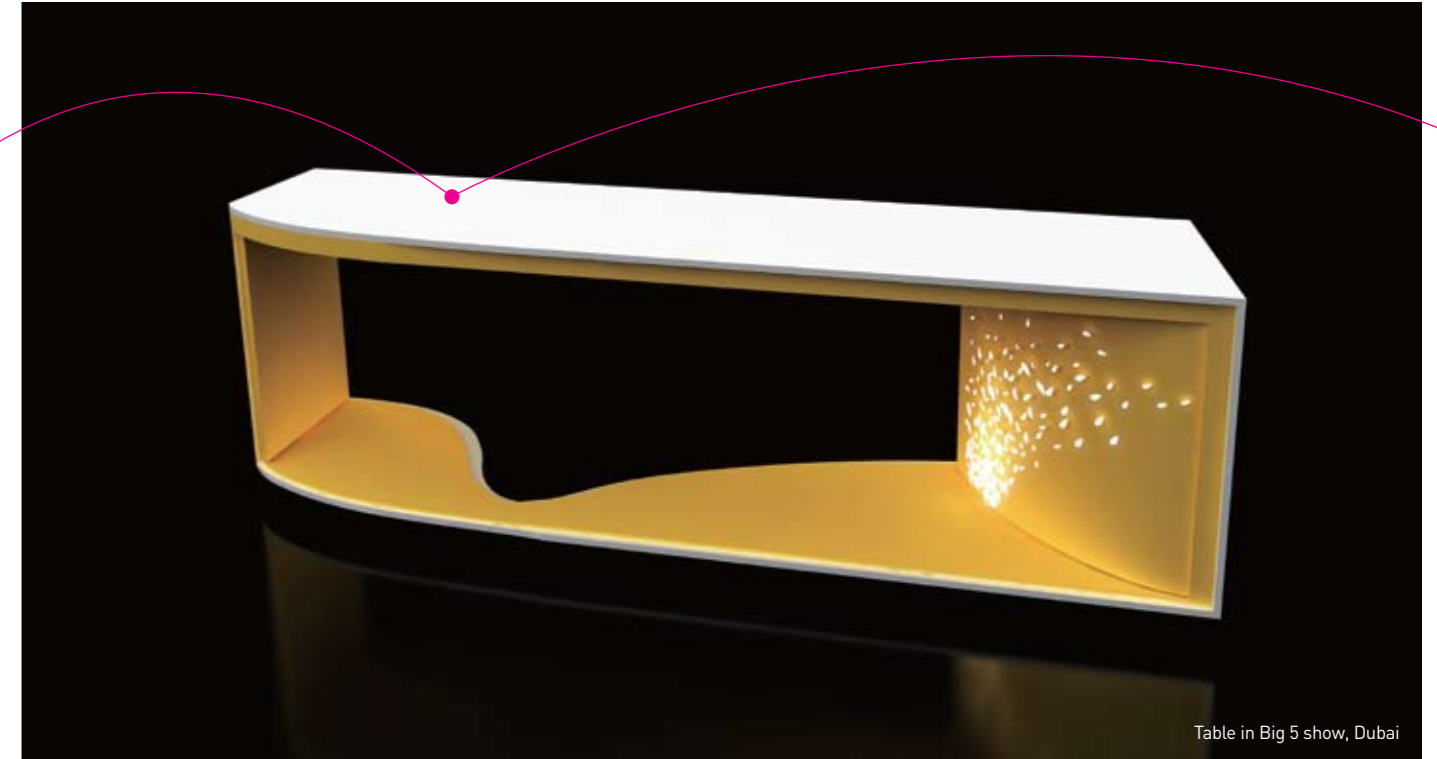


Table in Big 5 show, Dubai



HANSSEM Kitchen Furniture in Korea



WASHROOM

The best material for the customers health, Radianz

Radianz Quartz is recognized as an eco-friendly and sanitary material that is harmless to the human body. There is no risk of exposure to environmental hormones or heavy metals. In addition, it is a hygienic material with low moisture absorption and resistant to mildew and bacterial growth than natural stone and marbles. Best service for special guests starts with impressive hidden gestures. Feel the inspiration of Radianz.

Water absorption

RADIANZ	0.05
Granite	0.3
Marble	0.3



BATH

Radianz is in the space with you at the start and end of your day

Wash away the fatigue of a busy day and begin anew. Premium engineered stone, Radianz, will relieve your fatigue. The color motif of Radianz is inspired by the pure beauty of nature. Rest your fatigued eyes and stabilize your mind and body with Radianz colors.

Experience the color therapy of Radianz.



BAR

Space for special memories,
Radianz will complete it for you.

Radianz health certification is compliant to world class quality and is ideal for creating a delightful restaurant. It is clean and sterile with low water absorption and contamination levels than other natural stone and marble materials.

Service your customers in this clean and pleasant interior.



Wine bar in U.S.A



Jeju Shilla Hotel in Korea

RESTAURANT

Create a clean and pleasant space filled with pleasant memories.

Radianz has a dense surface and extremely resistant to contamination. Because it is compressed into a mold in a vacuum, it does not easily absorb contaminants and difficult for mold to proliferate. In addition the water absorption ratio is "0" so you can enjoy a comfortable living space.



Bacterial growth test

Radianz has confirmed that on this material bacteria does not proliferate even after a long period of time.

- Test method

ASTM G22 :

Determining resistance of plastics to bacteria

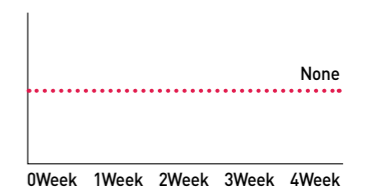
Strains :

Pseudomonas aeruginosa (ATCC 13388)

Culture condition :

36 +/- 1°C, 85%RH, 21day

- Results of passed test



Jeju Shilla Hotel in Korea

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.

Chemical testing results



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.

Contaminants

- Coffee • Wine • Soy • Coke • Milk
- Orange juice • Olive oil • Mayonnaise
- Whisky • Ketchup • Vinegar • Tea

Result

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

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

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