

Radianz®

Quartz Surfaces

Copyright © 2019 LOTTE ADVANCED MATERIALS Co., Ltd. Printed in KOREA



LOTTE ADVANCED MATERIALS

Originally established in 1954 as Cheil Industries, the Samsung Group launched its chemical-business units in 1988 as part of an overall business expansion strategy.

In 1992, the company commenced the manufacture of acrylic solid surface products marketed under the “Staron” brand, followed by the introduction of the Tempest Collection launched in 2006. The Samsung Group further expanded its decorative surfaces portfolio by introducing “Radianz” engineered, natural quartz surfaces in 2009.

With its drive to become a global supplier of top-tier decorative surfacing materials, Lotte Chemical Corporation launched LOTTE ADVANCED MATERIALS in May of 2016 through its acquisition of Samsung Chemical.

LOTTE ADVANCED MATERIALS,
A creator of
high-quality materials
and refined sensibilities.

2019 LOTTE ADVANCED MATERIALS

LOTTE ADVANCED MATERIALS built up ABS and PS plants in 1989, signaling its first major step into the market. Since then, the company has been expanding its business rapidly in a variety of categories including PC.

1989 ABS & PS plants completed	1993 Acrylic solid surface material plant completed	2006 Polycarbonate plant completed	2008 Compounding plant in Mexico completed
2014 Compounding plant in Dongguan, China completed	2011 Compounding plant in Hungary completed	2010 Compounding plant in Tianjin, China completed	2009 Quartz Surfaces factory established

starex[®]
ABS | ABS ALLOY | ASA | EPS | SAN

ABS

NO.2 **NO.5**
IN KOREA IN THE WORLD

INFINO[®]
PC | PC ALLOY | PBT | MPPE | PA | PPA | PPS | PCT | TPE

PC

NO.1 **NO.5**
IN KOREA IN THE WORLD

Radianz[®]
NATURAL QUARTZ SURFACE [Engineered Stone]

staron[®]
ACRYLIC SOLID SURFACE

SURFACE MATERIALS

NO.1 **NO.3**
IN KOREA IN THE WORLD





**RADIANZ,
ADVANTAGES THAT GO
BEYOND THE SURFACE.**

RADIANZ, PREMIUM QUARTZ SURFACES

Comprised of high-density natural quartz, Radianz emulates the sophisticated aesthetic of natural stone, while its advanced composition provides qualities that are unobtainable with granite or marble. Its nonporous, scratch- and heat-resistant surface makes it an ideal material for healthcare, hospitality, food service and residential applications.

KEY FEATURES

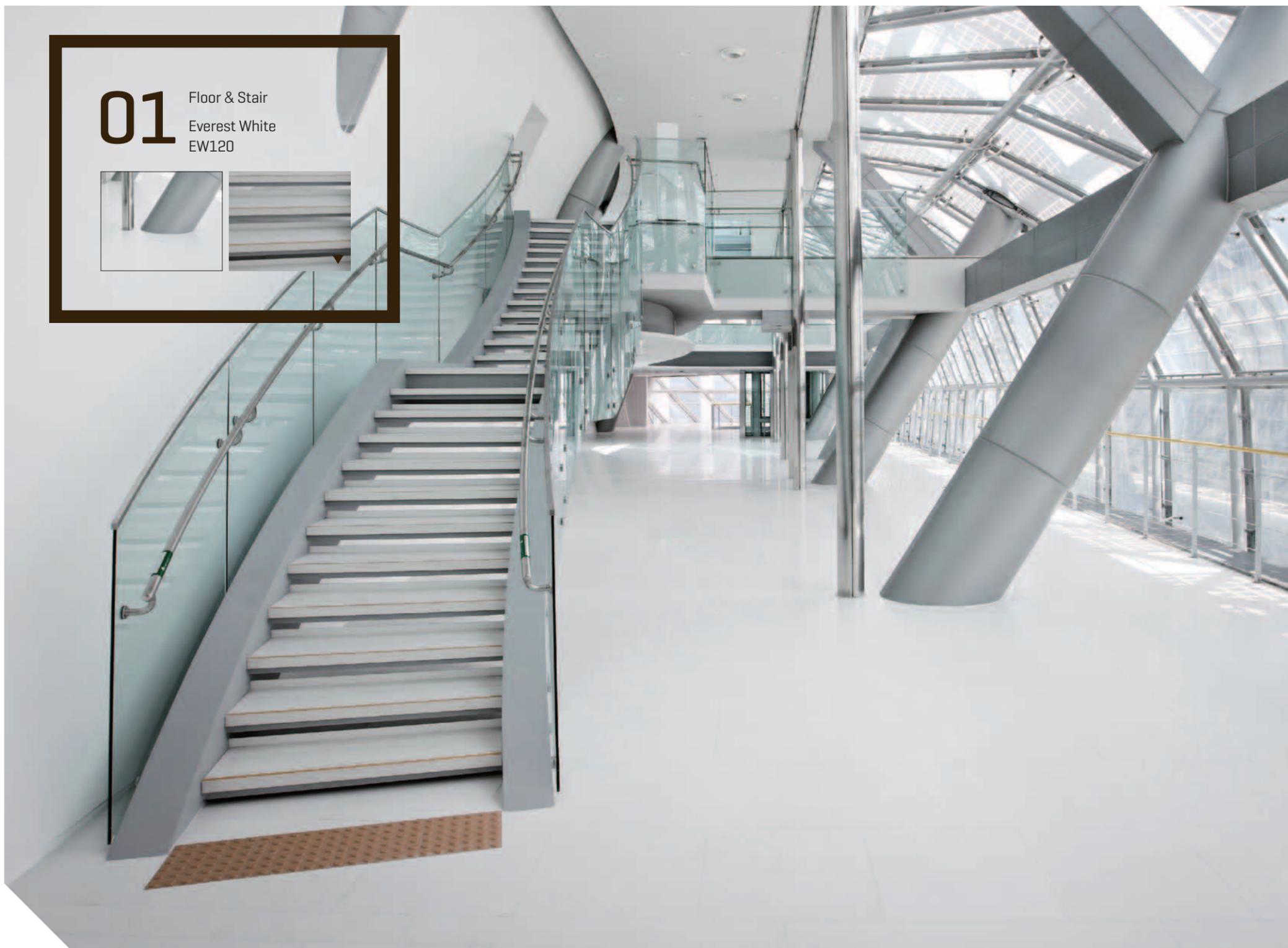
- Nature inspired aesthetics & appearance
- Controlled color consistency and superior durability using Breton technology
- Extensive range of colors and patterns

APPLICATIONS

- Countertops / Vanity tops
- Lavatories and public restrooms
- Contract furniture / Conference tables
- Reception desks
- Transaction counters
- Food service and beverage counters
- Displays and fixtures
- Window sills / Wall caps

COMMERCIAL & PUBLIC SPACE

Radianz® Quartz Surfaces from LOTTE Advanced Materials features a wide range of trending colors with an ultra-durable material designed for high-traffic environments, such as hotels, lounges, bars, and restaurants.



03

Floor
Aleutian White
AW130



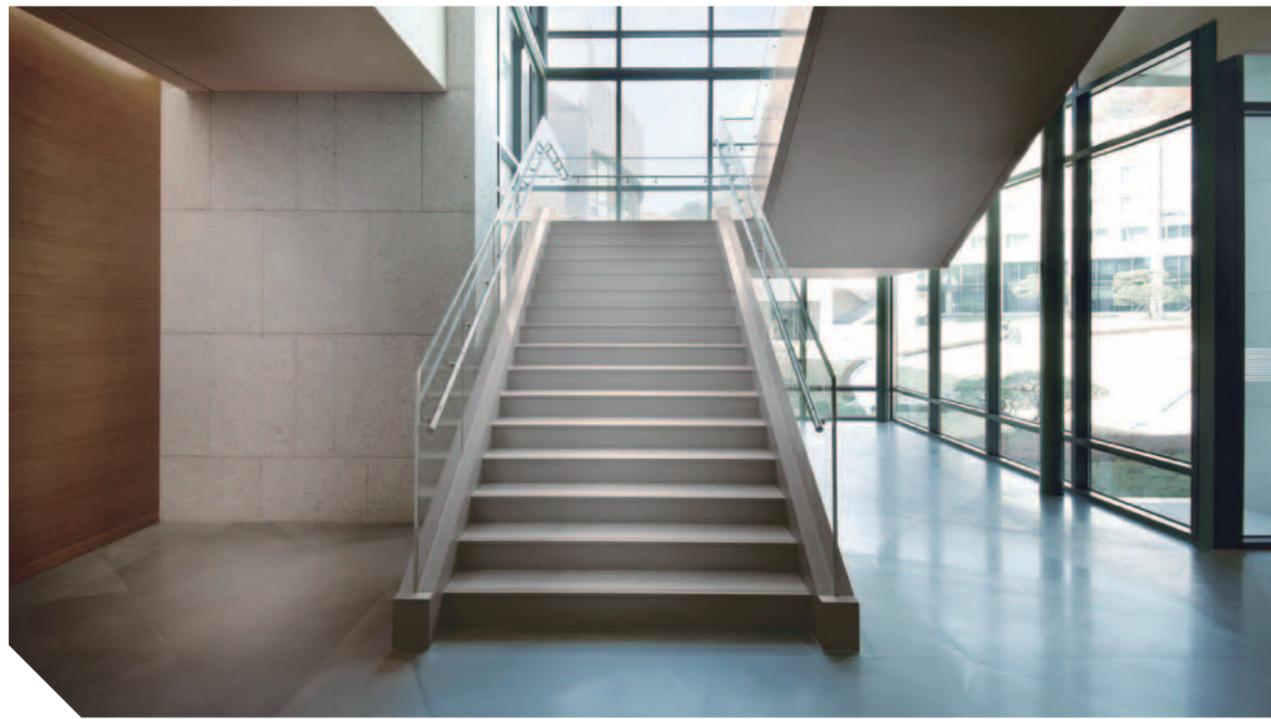
05

Floor & Countertop
Aleutian White
AW130



04

Stair
Whitney Gray
WG722



06

Tabletop
Everest White
EW120





07
Countertop
Bristol Beige
BB227



09
Bathroom
Countertop
Antigua Beach
AN230



08
Wall Cladding &
Floor
Bristol Beige
BB227



10
Bathroom
Countertop
Ural Gray
UG950



RESIDENTIAL SPACE

Comprised of high-density, color-controlled natural quartz, Radianz® eliminates many of the inherent limitation of stone through state-of-the-art technical solutions. Its non-porous, durable, and heat-resistant surface makes Radianz® an ideal material for both comfort and beauty in your residential space.



02
Kitchen
Countertop
Imperial Gray
IG910



03
Kitchen
Countertop
Kunlun Ink
KI992



01
Kitchen
Countertop
Mariposa Buff
MU410



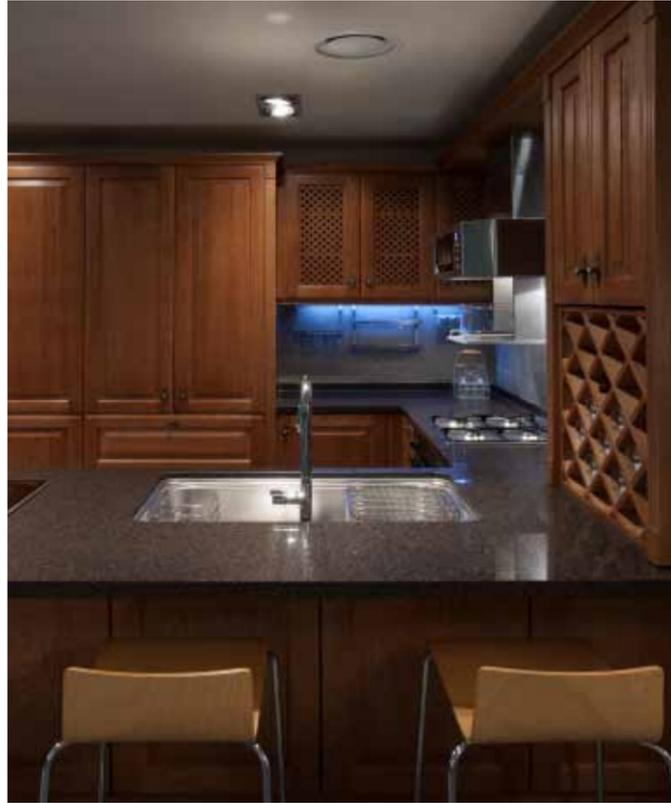
04

Kitchen
Countertop
Everest White
EW120



06

Kitchen
Countertop
Mirama Bronze
MI780



05

Kitchen
Countertop
Diamond White
DW105



07

Powder room
Countertop
Aleutian White
AW130



08

Powder room
Countertop
Adirondack Birch
AB144





09
Bathroom
Countertop
Cumberland Flax
CF350



11
Tabletop
St. Helens White
SH145



10
Entrance Floor
Mariposa Buff
MU410
Mont Blanc Snow
MS141



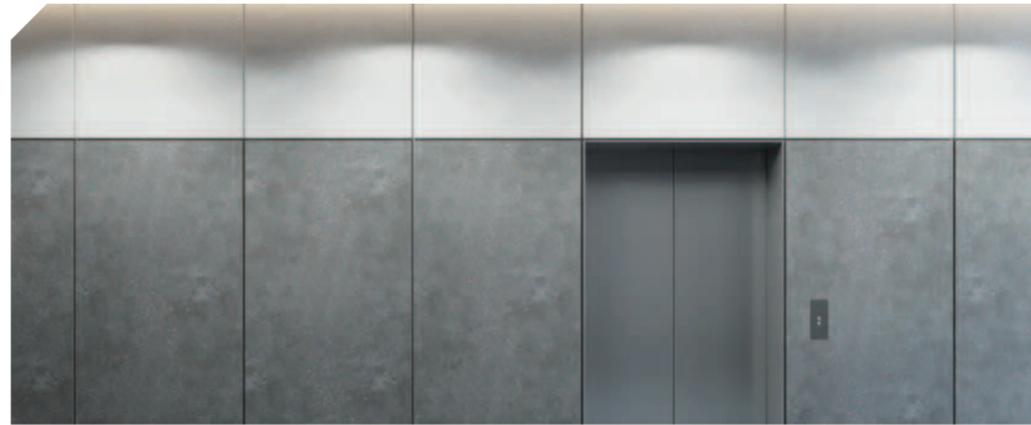
12
Tabletop
Everest White
EW120



URBAN SERIES PROPOSAL

Ongoing collaboration with color trend experts guides us in the development of innovative surface options architects and designers have come to appreciate. Urban Series is a collection of sleek and refined Radianz® colors that add a contemporary finish to an interior space.

1. From Concrete Urban / Modern / Simplicity / Neutral



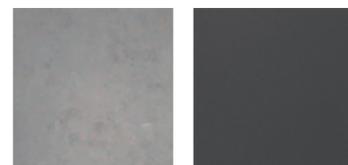
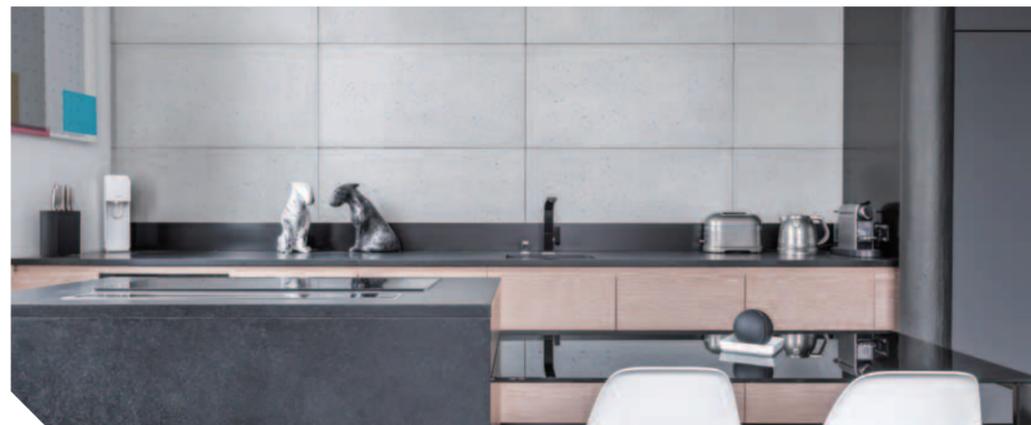
Urban
UR750

Contrail
C0811



Whitney Gray
WG722

Himalaya Ridge
HR755

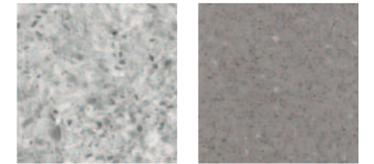


Modern
M0799

Ural Gray
UG950

Durable, modern, essential – find the perfect color palette for creating a modern, minimalistic ambience.

2. Urban Outlook Urban / Powerful & Essential / Cosmopolitan



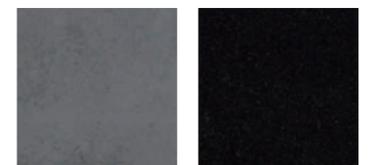
Sierra Bedrock
SB744

Elbrus Boulder
EB866



Halo
HA120

Lucern Lake
LL195



Ashford Fog
AS955

Aster
AF953



THE CIRRUS COLLECTION

By incorporating Breton technology, the Radianz® product assortment has expanded to include the new Cirrus Collection of stylized, random-veined patterns, providing a high-performance quartz surface emulating the natural aesthetic of marble. Find the balance between personal style and practicality within the color variety Radianz® Cirrus Collection has to offer.

01
Kitchen
Countertop
Acacia
AC711

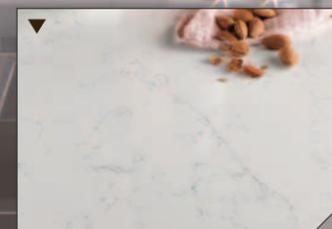


Nature's Art & Movement



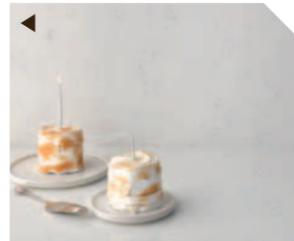
02

Kitchen
Countertop
Calacatta Venatino
CV110





03
Kitchen
Countertop
Divine
DI180



05
Kitchen
Countertop
Ashford Fog
AF953



04
Kitchen
Countertop
Verona Verde
VV254



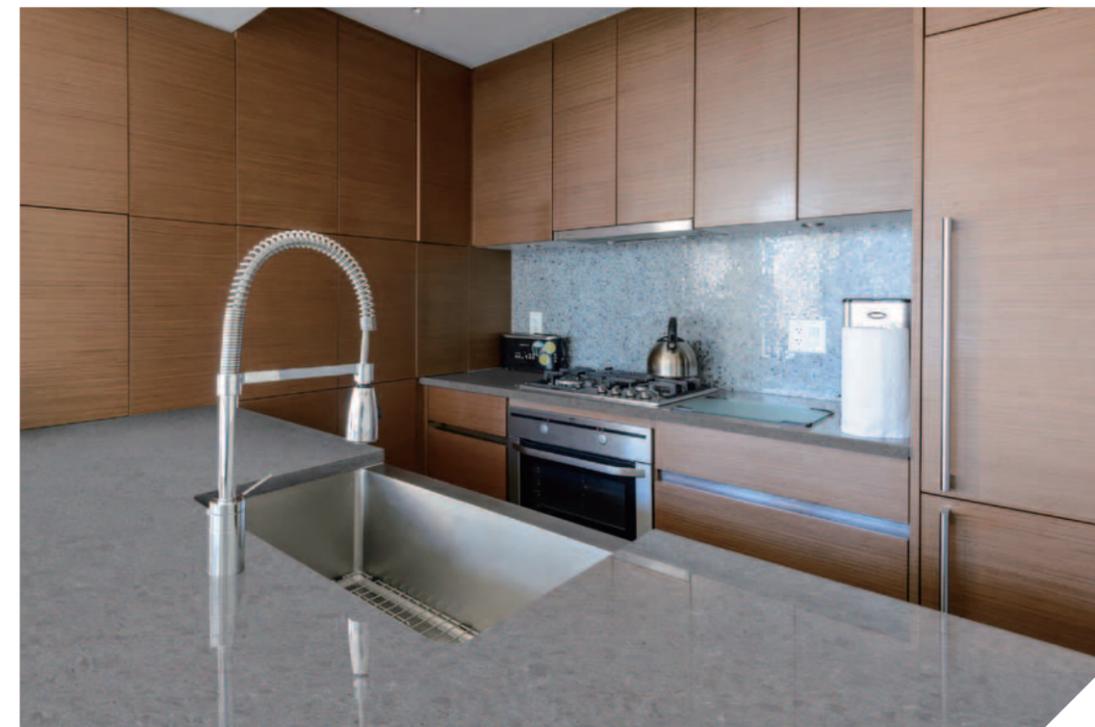
06
Kitchen
Countertop
Sequoia
SE155



07
Kitchen
Countertop
Modern
M0799



09
Bathroom
Wall Cladding
Starlight
ST740



08
Kitchen
Countertop
Conrail
C0811



10
Bathroom
Countertop
Spa Black
SB950



NEW COLORS

CIRRUS COLLECTION

Modern
M0799

Charcoal
CH949

Divine
DI180

Urban
UR750

Ceres
CO925

Contrail
CO811

Calacatta Verona
CV120

Spa Black
SB950

Interstellar
IN170

Cadiz
CD760

Calacatta Veneto
CV130

Halo
HA120

Calacatta Venatino
CV110

Vega
VE150

Starlight
ST740

Rapture
RA150

Marquina Lavagna
ML950

COLORS OF RADIANTZ

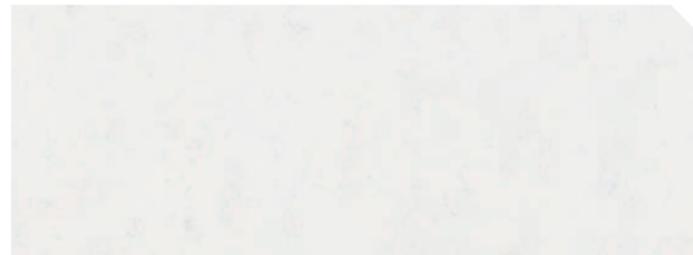
CIRRUS



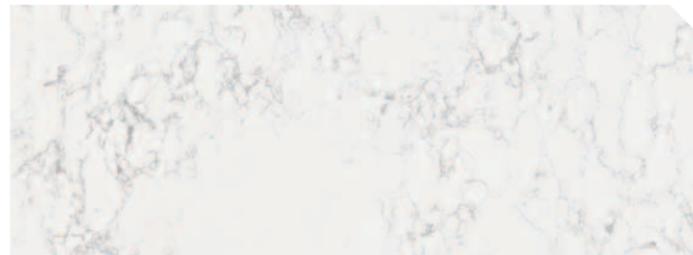
Calacatta Venatino CV110 **NEW**



Calacatta Verona CV120 **NEW**



Divine DI180 **NEW**



Interstellar IN170 **NEW**



Calacatta Veneto CV130 **NEW**



Vega VE150 **NEW**



Denali Cloud DC155



Sequoia SE155



Acacia AC711



Lucern Lake LL195

Inspired by high-altitude sweeping clouds, the Cirrus Collection features dynamic, flowing patterns that create a tranquil, organic design; its classic, marble-like appearance creates the impression of timelessness and permanence. Comprised of 94% natural quartz, Radianz offers the beauty of stone in a nonporous, low maintenance surface that never requires sealing.



Halo HA120 **NEW**



Volga V0255



Urban UR750 **NEW**



 Rapture RA150 **NEW**



Pluto PL722



Starlight ST740 **NEW**



Verona Verde VV254



Cadiz CD760 **NEW**



Modern M0799 **NEW**



Contrail C0811 **NEW**



CIRRUS



Ceres C0925 **NEW**



Ashford Fog AF953



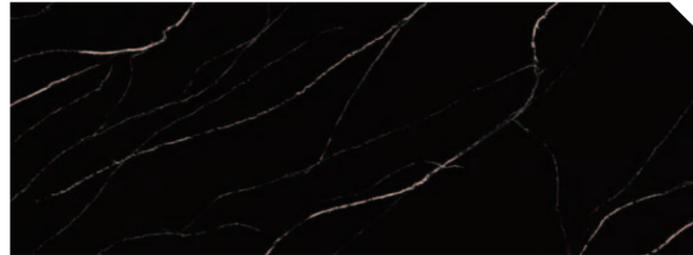
Charcoal CH949 **NEW**



Spa Black SB950 **NEW**



Aster AS955



Marquina Lavagna ML950 **NEW**

CLASSIC



Diamond White DW105



Everest White EW120



Aleutian White AW130



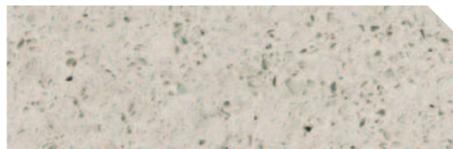
Mont Blanc Snow MS141



Kauai Cream KC213



Adirondack Birch AB144



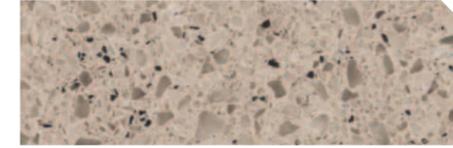
Gentle Gray GG900



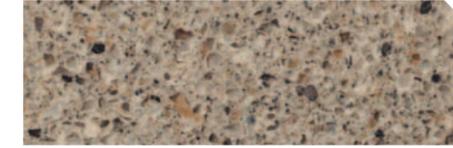
Whitney Gray WG722



Bristol Beige BB227



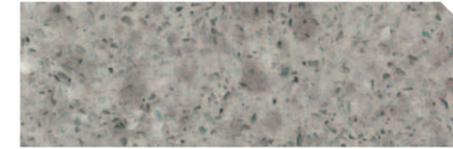
Antigua Beach AN230



Cumberland Flax CF350



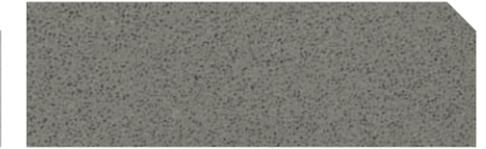
Sierra Bedrock SB744



Elbrus Boulder EB866



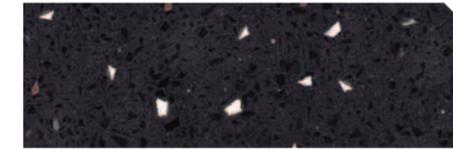
Himalaya Ridge HR755



Columbia Gray CG910



Ural Gray UG950



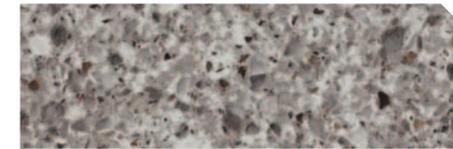
Kunlun Ink KI992

COASTAL

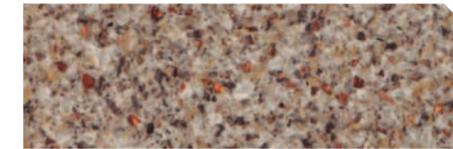


St. Helens White SH145

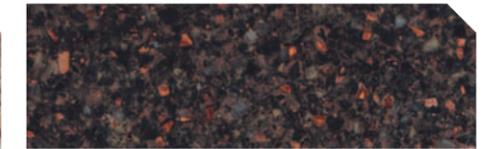
NOBLE



Imperial Gray IG910



Mariposa Buff MU410



Mirama Bronze MI780

Eco-friendly Materials, Radianz

Colors shown may vary from the actual product.
Please refer to product sample for true color representation.

Matte finish available

Recycled series

- These colors may require extra care and maintenance, consult with your Radianz processor for the best use of these colors.
- To view new colors in greater detail, please visit www.radianz-quartz.com



PERFORMANCE PROPERTIES

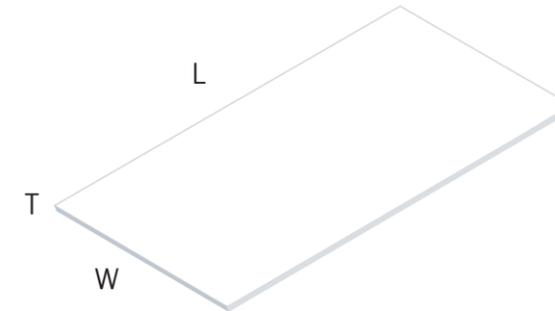
PROPERTY	UNIT	TEST RESULT	TEST METHOD
Specific Gravity	-	2.41	ASTM D 792-08
Water Absorption	%	0.03	ASTM C 373-06
Compression Strength [Dry]	Mpa	213.74	ASTM C 170-09
Compression Strength [Wet]	Mpa	251.16	
Flexural Strength	Mpa	53.6	ASTM D 790-07
Abrasion Resistance	mg	606	ASTM D 4060-07
Moh's Hardness	-	7	DIN EN 101-92
Rockwell Hardness	HRM	114	ASTM D 785-03
Slip Resistance-Static Coefficient of Friction [as received]	-	0.91/0.49 [Dry/Wet]	ASTM C 1028-07
Slip Resistance-Static Coefficient of Friction [with renovator]	-	0.89/0.48 [Dry/Wet]	
Point Impact	-	Passes	ANSI Z 124.6-07
Stain Resistance	-	Passes	
Cigarette Test	-	Passes	
Chemical Resistance	-	Passes	
Boiling Water Resistance	-	No effect	NEMA LD 3-2000 3.5
High Temp Resistance	-	No effect	NEMA LD 3-2000 3.6
Thermal Expansion	/°C	1.35×10^{-5}	ASTM D 696-03
Fungal Resistance	-	No Growth	ASTM G 21-96
Bacterial Resistance	-	No Growth	ASTM G 22-96
Flammability	-	Class A	ASTM E 84-09
Flame Spread Index	-	10	
Smoke Developed Index	-	180	



COLORS	RECYCLED CONTENT [%]
Aster	15.5%
Verona Verde	3.9%
Gentle Gray	29.4%
Kunlun Ink	33.1%
Mont Blanc Snow	23.7%

COLORS	RECYCLED CONTENT [%]
Elbrus Boulder	24.2%
Imperial Gray	13.3%
Mirama Bronze	3.2%
Mariposa Buff	5.4%
Sierra Bedrock	9.6%

PRODUCT DIMENSIONS



STANDARD

THICKNESS	WIDTH	LENGTH	WEIGHT
2cm [0.8in]	152cm [60in]	310cm [122in]	237kg [522lb]
3cm [1.2in]			356kg [785lb]

RESIDENTIAL WARRANTY

We trust in the quality of Radianz® quartz products. To ensure your satisfaction, LOTTE ADVANCED MATERIALS CO.,LTD. is proud to offer a limited non-transferable 15-year warranty.

COMMERCIAL WARRANTY

The Commercial 10-year Limited Warranty applies to Radianz® quartz that have been installed in an interior, commercial use application. For more details regarding the commercial warranty, please consult with your Radianz® distributor or contractor.

PREVENTING DAMAGE

Protect the surface when using metal utensils, cutlery and cookware during food preparation and avoid direct contact with extremely hot objects and caustic chemicals.

DISCLAIMER

The information contained herein is provided by LOTTE ADVANCED MATERIALS Co., Ltd. and LOTTE ADVANCED MATERIALS USA Inc for information purposes only and should be used by individuals with technical experience and knowledge in the area. LOTTE ADVANCED MATERIALS Co., Ltd. does not make any representation or warranties of the usefulness or expected result of the information, and does not assume any responsibility whatsoever related to the use of the information. Exclusion of the implied warranties may not apply in certain jurisdictions.

LOTTE ADVANCED MATERIALS USA Inc is a subsidiary of LOTTE ADVANCED MATERIALS Co., Ltd.