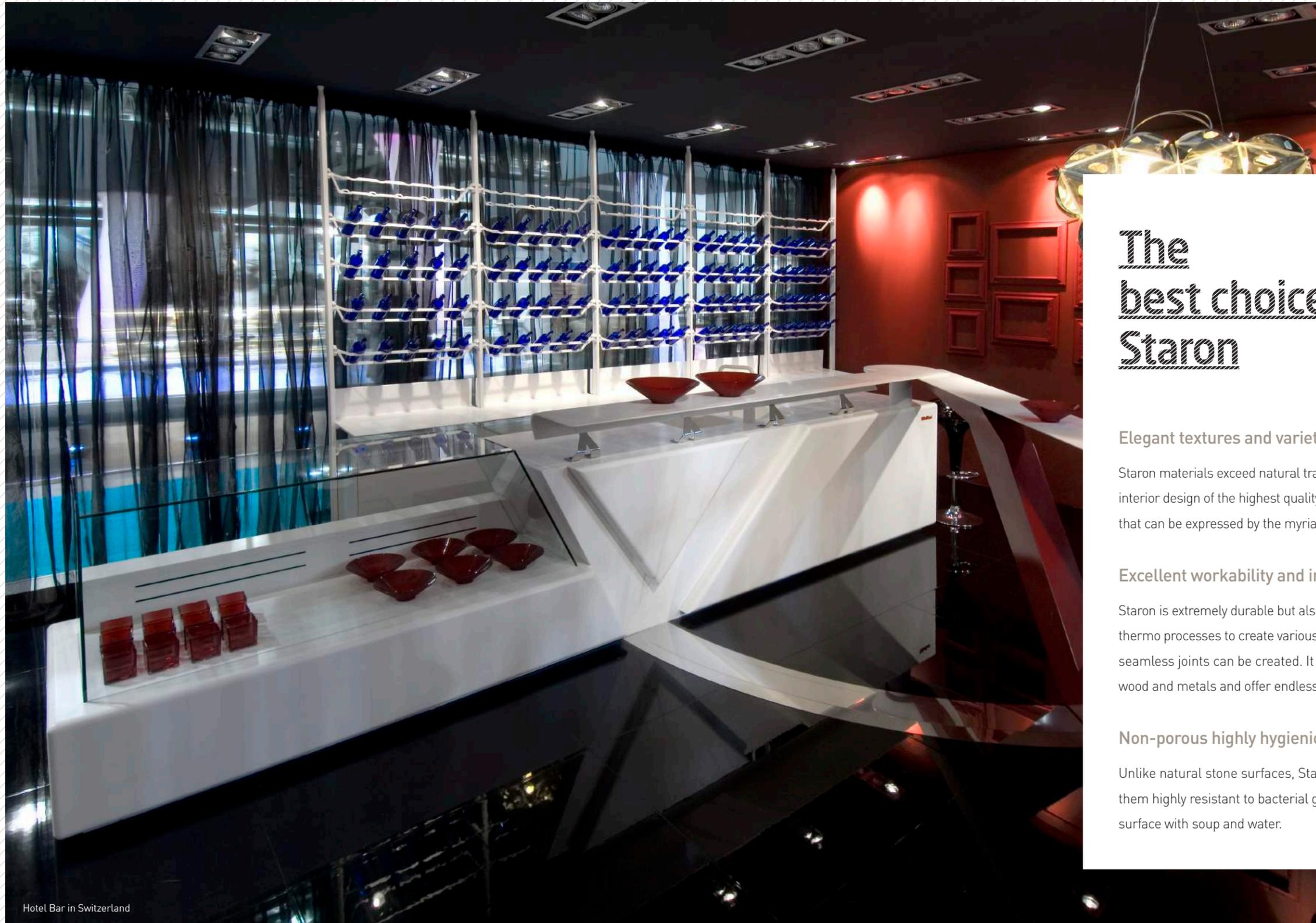


SAMSUNG

Restaurant

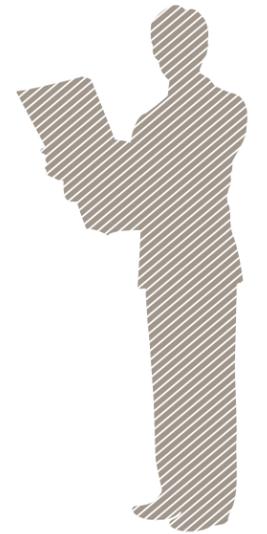
Architectural Manual

staron[®]
Solid Surfaces



Hotel Bar in Switzerland

The best choice for you, Staron



Elegant textures and variety of colors

Staron materials exceed natural translucent stone with its warm, soft textures elevating any interior design of the highest quality. Upgrade your interiors with any imaginable design idea that can be expressed by the myriad of colors and patterns.

Excellent workability and implementation of various designs

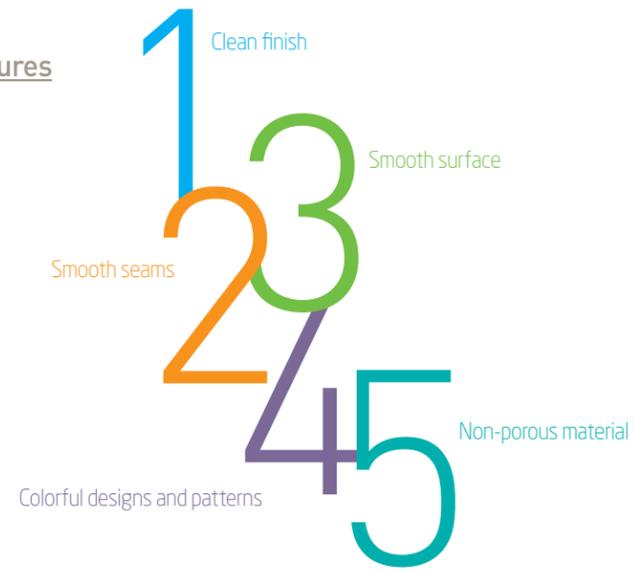
Staron is extremely durable but also can be easily handled by using wood working tools and thermo processes to create various cuts and shapes. In addition, with the use of adhesives, seamless joints can be created. It also works harmoniously with other materials such as wood and metals and offer endless possibilities.

Non-porous highly hygienic material

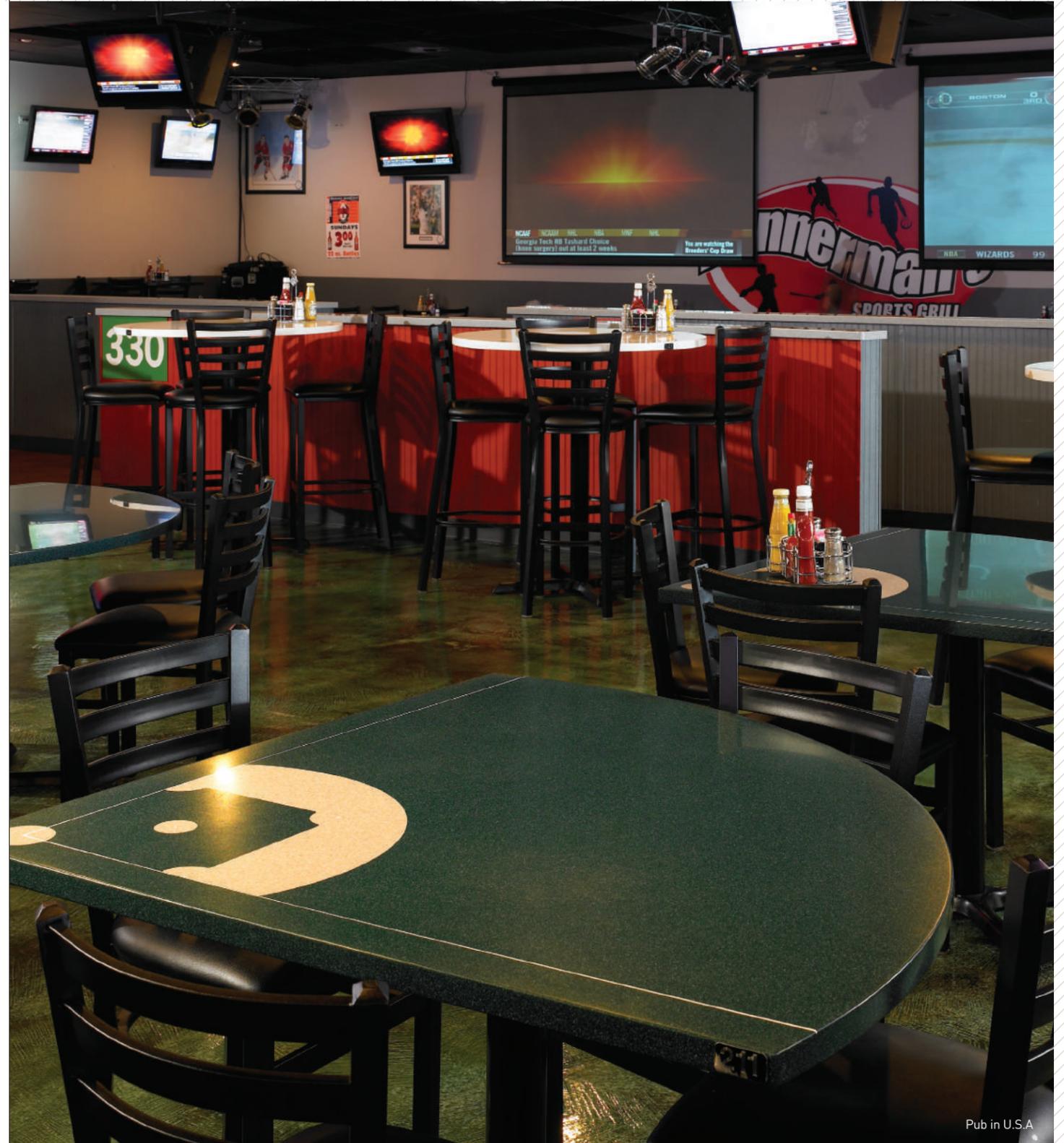
Unlike natural stone surfaces, Staron is non-porous and impervious to moisture, making them highly resistant to bacterial growth. Most pollutants can be easily removed from the surface with soap and water.

RESTAURANT

Staron,
5 special features



Bar + table | furniture + Counter | Wall covering





CLEAN FINISH

A smart durable material

Staron is an extremely durable but also easy to restore surface cracks and scratches. Restaurants are heavy traffic spaces where customers come and go. Use Staron to prolong the newness of your atmosphere for a long time.

KFC in France



KFC in France



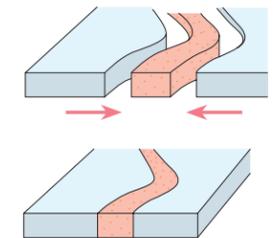
Restaurant in Ltaly



Mcdonald in France

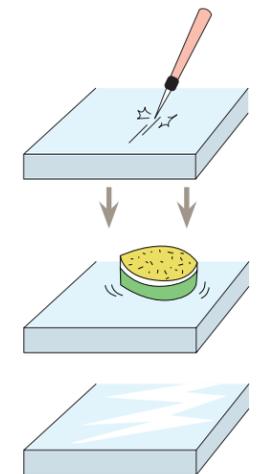


TECHNICAL SOLUTION



Various processing methods

A variety of colors can be created into a single sheet of Staron. Different complementing sheets can be connected to create a seamless surface that is smooth and polished to completion.



Material is easy to restore

In the event Staron surface has small scratches or is contaminated, take a soft scrub or a fine Scotch-brite pad to easily remove the damage. For deep scratches and cracks, contact your local A/S manufacturer to easily repair the surface.

SMOOTH SEAMS 2

Seamless design perfection

Staron's surfaces are clean and seamless which is well suited for restaurants. Designers can easily create variety of smooth forms that is like an artwork. These subtle features increase the value of the completed design.

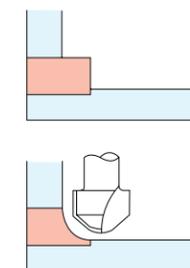


Asan Trapalace in Korea



Samsung Human Resources Development Center in Korea

TECHNICAL SOLUTION



Various processing methods

A variety of colors can be created into a single sheet of Staron. Different complementing sheets can be connected to create a seamless surface that is smooth and polished to completion.



Material is easy to restore

In the event Staron solid surface has small scratches or is contaminated, use a soft scrub or a fine Scotch-brite pad to easily remove the damage. For deep scratches and cracks, contact your local A/S retailer store to easily repair the surface.

3

SMOOTH SURFACE

Staron, born in various forms

Staron solid surface is able to unleash the creativity of a designer by offering versatile forms. Smooth curves and surfaces can help the completion of the design. Staron's transparency can add colorful variety to different interior spaces. You can use opaque faux marble cuts (CNC) or adjust the thickness to get a luminous transparency to an interior space.

The possibilities of thermoformed surfaces

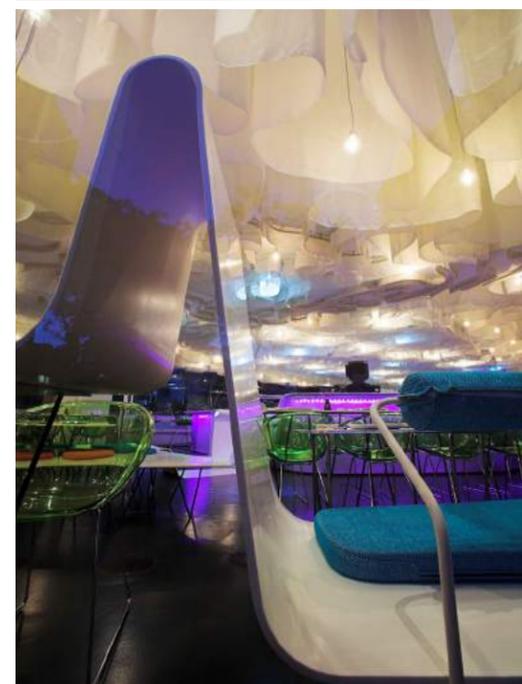
Pattern	Thickness(mm)	Min. Inside radius(R)
Solid, Sanded	6mm	25mm
	12mm	76mm
Aspen, Pebble	6mm	102mm
	12mm	127mm
Quarry, Metallic	12mm	203mm



Petit Grillon Corpatanx in Switzerland



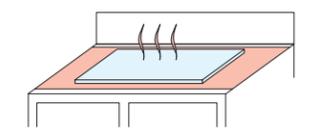
Petit Grillon Corpatanx in Switzerland



Sushi Bar in Cyprus



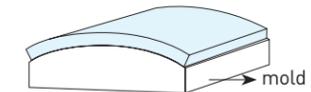
TECHNICAL SOLUTION



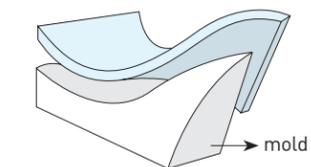
HEATING(Using Oven)



2D Process



3D Process



Smooth surface construction

One of the properties of Staron sheets is that it is flexible when heated under a constant temperature. In its flexible state it can be shaped in a mold to create 2D or 3D form to create a smooth surface.

4

COLORFUL DESIGNS AND PATTERNS

Luminous transparent chips of Staron

Staron solid surface is the first transparent acrylic chip developed in the world.

Using specialized coating technology, we offer a premium faux marble option. In addition, based on a systematic printing and color system, we are able to capture a designer's thoughts and feelings in the design of a restaurant.



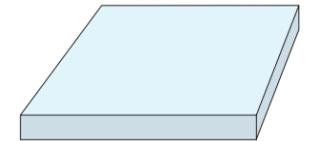
Pub in U.S.A



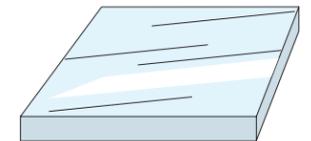
Pub in U.S.A

TECHNICAL SOLUTION

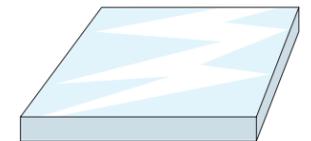
Matt finish



Satin finish



Gloss finish



Various surface finishes

Utilizing the polishing process you can obtain your desired surface such as Matt, Satin and Gloss.

For high usage areas like kitchen counters, We recommend a matte finish.

NON-POROUS MATERIAL

5

Your safe choice, Staron

The non-porous surface of Staron makes it impervious to water and deter bacterial growth. It can be used safely in a variety shop interiors. In addition, majority of surface pollutants can be easily removed with soap and water which is easy to maintain and convenient.



Eurostar & Yo Sushi Bar in U.K

Test result

A popular bacteria Pseudomonas Aeruginosa was applied to the surface of Staron and left there for 4 weeks to grow. When the area was tested for bacterial growth, the results showed no bacterial proliferation.

- **ASTM G22**
Determining restance of plastics to bacteria
- **Strains**
Pseudomonas aeruginosa (ATCC 13388)
- **Culture condition**
96.8 +/-1.8°F(36+/-1°C), 90%RH, 21day

Observed growth on specimen

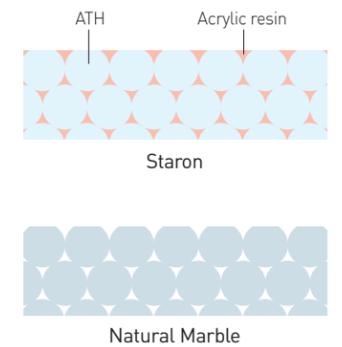


KFC in France



Eurostar & Yo Sushi Bar in U.K

TECHNICAL SOLUTION



non-porous material

Staron is a non-porous surface so it prevents mold and bacterial growth. Under a microscope, you can see that there is no room for the resin to absorb the MMS. In addition, Staron have very low water absorption ratio and resists penetration of surface contaminants.

Quality styling, Staron best interiors for the best customer



Samsung Human Resources Development Center in Korea



The University of Edinburgh in U.K



Eurostar & Yo Sushi Bar in U.K

Staron's superior processing power will contribute to enhance the dignity of a restaurant. Staron solid surface is suitable in any interior concept including modern design, classic design and unique designs. In addition, the smooth surfaces, clean edges, variety of colors range, and durable properties of the material will complete the space of any designer's vision.



 **Chemical testing results**

We conducted chemical tests on various surface contaminations prone to exist in Restaurant. 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

- Ketchup • Tomato sauce • Coffee
- Coke • Curry • Mustard sauce
- Wine • Tea • Kimchi



Result

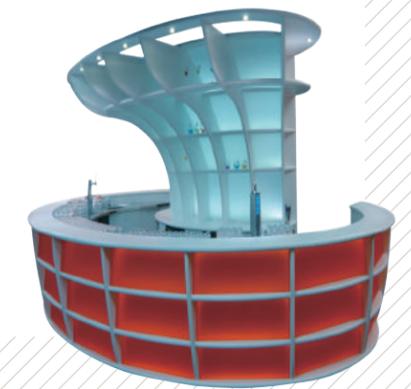
Most pollutants can be easily removed from the surface with damp pad with neutral detergent.

 **Comparing Staron to other products**

Staron is durable but also easy to work with.

The differentiating advantages are its reliable quality and ease of use unlike other products.

Attributes	Staron solid surface	Polyester solid surface	Engineered stone	Granite	Stainless steel
Ease of maintenance/ Cleanability and repair	3	3	2	1	2
Does not support microbial growth	3	3	3	1	3
Nonporous smooth	3	3	3	1	3
Low flammability	3	2	3	3	3
Durable	3	3	3	3	3
Low VOC	3	3	3	3	3
Low smoke toxicity	3	1	3	3	3
Initial and life cycle cost effectiveness	3	3	3	1	2
Slip resistance-appropriate coefficient of friction	3	3	3	3	2
Ease of installation, demolition, replacement	3	3	1	1	2
Seamless appearance	3	3	1	1	3
Control of reflectivity	3	3	2	2	2
Option for color, pattern	3	3	3	2	2
Nontoxic, non-allergenic	3	3	3	3	3



www.staron.com

SAMSUNG 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 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 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 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