

# **STARON®**

#### A PREMIUM SOLID SURFACE MATERIAL

#### DURABILITY | COLOUR VARIETY | DESIGN WITHOUT LIMITS

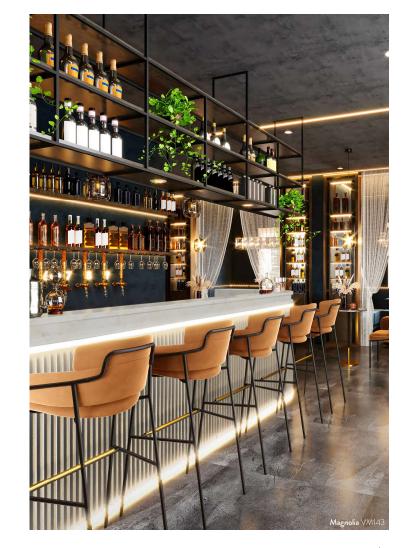
Staron's Acrylic Solid Surfaces are a homogeneous, non-porous composite material, available in diverse colors and patterns, suitable for various environments.

As the demand for organic designs surges, Staron steps forward, pioneering innovative methods and technologies to bridge this gap. Its thermoforming capability allows effortless creation of organic shapes for sophisticated interior and exterior layouts.

Installation of Staron surfaces is straightforward, offering flexibility based on project requirements. With its many advantages and versatile application possibilities, Staron is a convincing contribution to the private, commercial and healthcare sectors alike. The surfaces can be polished to varying levels of glossiness and easily engraved with designs, retaining quality and requiring minimal maintenance.

Why choose Staron? It boasts certifications from internationally recognized standard organizations like GREENGUARD, ISO 14001 and BREEAM. These endorsements testify to the product's low emissions and adherence to environmental regulations.

At Staron, commitment extends beyond product creation; it serves as  $\it Your Design Solution$ .



#### **FEATURES & BENEFITS**



#### ROBUST AND DURABLE

- Easy maintenance and repair
- Flame and shock resistant



#### HYGIENIC

- · Non-porous and homogeneous
- Antimicrobial resistance
- Chemical resistance



#### FLEXIBILITY AND VARIETY

- · Thermoformable and 3D-effects
- Organic and geometric design
- Perfectly suitable for complex



#### FREE FROM JOINTS

- · Glues together seamlessly
- · Soft and flawless to the touch
- Cast-like design



#### LIMITLESS COLOUR VARIETY

- 150 colours
- Reflection and depth-effect
- Supreme Collection offering stone, marble and concrete looks



#### TRANSLUCENT

- Full-surface backlighting · Variable luminosity
- Individual backlighting for logos and texts



#### **STARON® 10-YEAR LIMITED WARRANTY**

LOTTE CHEMICAL ('LOTTE') grants the owner a limited 10-year warranty on any STARON® installation constructed in accordance with LOTTE approved processing and application guidelines. For more information about the terms and conditions, please consult our website www.staron.com.

Introduction 4

### **EVERY STEP FOR GREEN**

SUSTAINABLE STARON®

#### SCS Recycled Content Certification

The SCS Recycled Content Certification independently verifies the percentage of a product made from recycled content or materials. In our Solid collection, Bliss, Sunflower(N), and Universe(N) meet the criteria for these eco-friendly materials.





Universe(N)



#### **Environmental Product Declaration (EPD) Certification**

EPD certification focuses on providing transparent and verified information about the environmental impacts of a product throughout its life cycle, including its production, use, and disposal.

#### **UL GREENGUARD Certification**

GREENGUARD Gold Certified products are low-emitting and contribute to clearner indoor air for you and your family. Certified products are screened for more than 15,000 VOCs known to pollute indoor air.

#### BREEAM (Building Research Establishment Environmental Assessment

BREEAM is the world's leading sustainability assessment method for projects, infrastructure, and buildings. By undergoing environmental, social, and economic sustainability performance assessments and obtaining certification, Staron promotes sustainability and benefits both people and the environment.

#### ISO (Environmental & Qualified Management System)

Staron consistently strives to systematically fulfill its responsibilities. This includes meeting the standards set by environmental management systems [ISO 14001], effective energy management systems [ISO 50001], occupational health and safety management systems [ISO 45001], and quality management under [ISO 9001].

#### Health Product Declaration (HPD) Certification

The HPD Open Standard, developed by HPDC, provides a standardized format for manufacturers to disclose product contents and associated health information, empowering stakeholders to create healthier buildings. Architects and building owners can use the HPD to help products contribute more toward LEED or WELL qualification.

Each certification is available on our website.



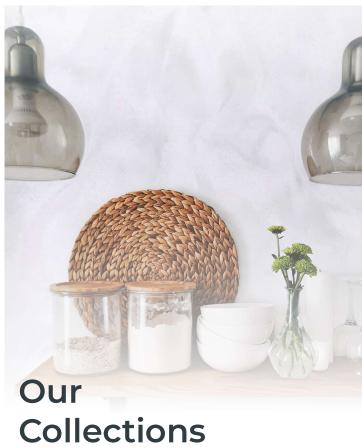












NEW COLLECTIONS

OVERVIEW OF ALL COLLECTIONS

# Premiere

Inspired by the fluidity and grandeur of music, our new Premiere Collection embodies softness and sophistication in every detail. The Largo, Legato and Gravita Collection captures the rich veining of natural marble with a unique dual-line design, adding an elegant touch to any space. The Veins cross and intertwine, enhancing the luxurious feel even further. Imagine the natural, soft patterns of stone seamlessly integrated onto acrylic surfaces – it's like bringing the serene lines of nature indoors.





#### **PREMIERE LARGO**





#### PREMIERE LEGATO

VL322





#### **PREMIERE GRAVITA**

1/0000

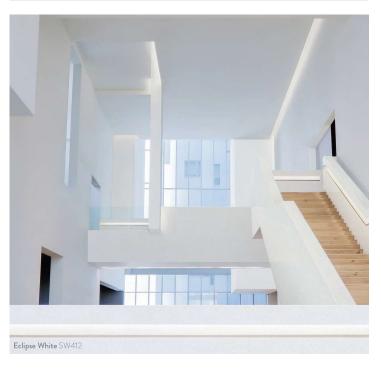




9 | Staron® Solid Surfaces New Collections | 10

# **ECLIPSE COLLECTION**

Eclipse Collection aims to craft spaces that radiate a tranquil atmosphere and function as natural energy sources. Featuring a resilient design adorned with unique sand chips, the Eclipse Collection harmonizes with delicate particles, adding a subtle sparkle that glimmers from every angle.



#### **ECLIPSE WHITE**



#### **ECLIPSE CREAM**



SW412



SW444

#### **ECLIPSE AEON**



SA473

#### **ECLIPSE LUNA**



SL477

11 Staron® Solid Surfaces New Collections | 12

## STUCCO COLLECTION

The Stucco Collection is inspired by traditional stucco techniques, combining lime, fine sand, and other elements to create textured wall finishes resembling natural tones. Staron has reimagined and embraced the captivating texture and natural charm of stucco, integrating them into their designs with a contemporary touch. The base displays a delicate, feather-like pattern with occasional semi-transparent chips, evoking the appearance of finely embedded pebbles in a polished wall.

#### STUCCO ANGORA

NIAOZO





#### STUCCO HAZE

NH98





## **TEMPEST STELLA**

Introducing Staron's Tempest Stella collection, where natural beauty meets versatility. With a neutral foundation scattered with a myriad of chips, it effortlessly captivates with the charm and sparkle of a starry night.

#### **CYGNUS**

FC117





#### **VELA**

E1 110





13 Staron® Solid Surfaces 14

Stucco Angora NA972







Supreme™

Supreme Collection is Staron's premium collection inspired by the natural energy of the marble and nature itself. The timeless berauty of the stone is captured in the Supreme collection featuring eye-catching swirls and subtle veined patterns within its smooth colours. A delicate aesthetic

TIMELESS BEAUTY

15 | Staron® Solid Surfaces





#### **ORGANIC PATTERN**

Supreme seeks to present real marble, revealing unexpected moments of nature formed by enduring harsh conditions over time.



#### **ELEGANT VEINS**

Flowing linear veins extend beyond the surface, elegantly transforming your space.



#### **TRANSLUCENT**

The vein conveys a sense of depth by the effects of reflection, refraction, and overlay through light.



Collections | 16

combined with the advantages of staron solid surface assures endless design possibilities.

Ocean View VOI74





Supreme Cloudbank VC118 Cafe Interior Design

17 Staron® Solid Surfaces Collections | 18

# STANDARD COLLECTIONS

We strongly believe that inspiration can manifest in countless forms. In the case of the Staron collections, it manifests in numours ways. Here, you'll discover eight more collections, each meticulously crafted to reflect the essence of nature and human endeavour. All decors are thoughtfully grouped into beautifully distinctive ranges, ensuring that every design preference and aesthetic inclination finds its perfect match.



#### SOLID

Forest SF061

Color conveys simple yet powerful messages and embodies numerous emotions. Intense colors communicate a rich sensibility as well as a lively and friendly atmosphere full of positive energy. These refreshing solid colors are expected to have a greater impact in various commercial spaces.



#### **SANDED**

Sanded Cream SM421

Sanded by Staron effortlessly complements any space with its versatile design. Its fine particles resembling tiny grains of sand. From cooler greys to warmer tones, Sanded provides soft tones of colors that exude elegance and warmth, perfect for achieving a serene retreat or a chic, modern ambiance.

#### **ASPEN**

The essence of Staron's Aspen lies in its classic allure, inviting a second glance with its enduring charm. It's a choice that never tires, offering enduring sophistication and elegance.



Aspen Brown AB632

#### **PEBBEL**

Staron's Pebble Collection centers around a dynamic play of color through its unique tone-on-tone color chips. It's like a vibrant canvas, where one primary hue takes the lead and is joined by a chorus of graded tones, creating a mesmerizing composition of color harmony.



Pebble Saratoga PS820

#### **METALLIC**

Embrace the courage to uplift your space with the luminous glow of the Metallic Collection. Featuring sparkling silver chips in dark grades, this collection effortlessly adds a touch of luxury to any environment, making your space feel more opulent than ever.



Metallic Galaxy EG595

#### **TERRAZZO**

While rooted in tradition, Terrazzo design is increasingly being embraced in our spaces. Designed with modern and unique living in mind, this on-trend surface features a matrix adorned with colorful and geometric chips, adding a touch of vibrancy and personality to any environment.



Terrazzo Venezia NT150

19 Staron® Solid Surfaces Collections 20

#### **QUARRY**

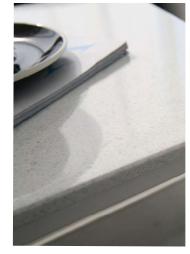
Quarry is the collection designed for those moments when you want to add a touch of uniqueness or make a statement in a space. This collection is tailored to immediately capture attention, exuding strength and richness, and leave a lasting impression in your space.



Quarry Oyster TO310

#### **TEMPEST**

The hallmark of the Tempest Collection is its luxurious essence. What sets Tempest apart is its harmonious and impeccable composition of chips—varying in size, color, and a hint of subtle sparkle. It's like walking into a starstudded gala, where every detail is carefully curated to elevate your space to new heights of sophistication and allure.



Meteor FM111



# **Gallery**

**FEATURED PROJECTS** 

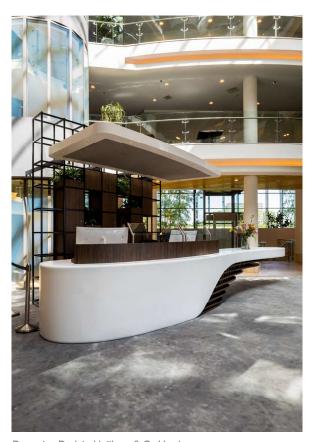
# **PUBLIC BUILDINGS**



#### Samsung Education Center

Pure White SP016





Reception Desk in Meijburg & Co Headquarter Location: Amstelvenn, Neiberland Fabricator: Solid Surface International

Bright White BW010





# Warsaw Spire

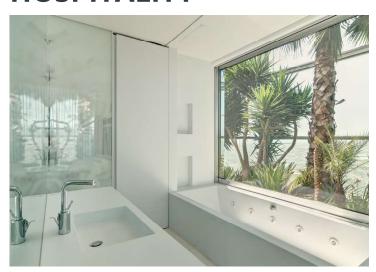
Location: Warsaw, Poland Designed by Massive Design Bright White BW010

#### ◆ Reception Desk

Location: Italy Designer & Architect: Roberto Mallardo, Bova Architetti Ocean View VO171

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# **HOSPITALITY**





#### Marriott Renaissance Hotel

Location: Barcelona, Spain Designer & Architect: Ateliers Jean Nouvel, Ribas & Ribas Photographer: A. A. Fuentes

Bright White BW010



Buizen 52 Cruising

Location: Australia
Designed by: Buizen Yachts
Pearl SP011





Glam Studio
Location: South Korea
Designed by Glam Studio

Terrazzo Venezia NT150







Zarzo Restaurant
Location: Eindhoven, Netherlands
Copyrights: Solid Surface Int.
Ocean View VO171

# **SHOPFITTING**



#### ◀ Dreher's Gusto Bakery

Location: Germany Fabricated by Co. Boschert Ocean View VO171



#### Kuho Shop Location: Jeju, Korea

Bright White BW010



# **HEALTHCARE**





Ahrend Healthcare Inspiration Studio Showroom

Location: Dubai Designed by MASSA Interior Design & Architecture **Bright White** BW010



#### Redcliff Hospital ▶

Location: Australia
Designer & Architect: Dayne Mearns, Thomson Adsett

Pebble Swan PS813









#### 457 Bli Bli

Location: Australia Designered by Copper Small

Ocean View VO171



#### **◀** Sculptural Island

Location: Australia
Designed by Enigma Interiors
Bright White BW010

**RESIDENTIAL** 



Marazzi Project Location: Yorkshire, UK Designed by Marrazzi Design Fabricated by Prestige Work Surfaces Ltd

Tempest Peak FP100



# **FURNITURE**







Staron Furniture

Location: Swiss Designer: GLAD Ltd Company

Bright White BW010

Pebble Table
Designed by Misha Belyaev
Bright White BW010

# **CLADDING SOLUTIONS**



#### Plumeria House

Location: Bangkok, Thailand Designer & Architect: Neo Exhibit Co., Ltd. Fabricator: Knight Furnich Co., Ltd. Bright White BW010



APE Grupo's Logistics Centre

ocation: Spain

Bright White BW010

Choosing Staron® solid surface for cladding is a smart move packed with benefits. Its lightweight nature not only makes handling a breeze but also enhances safety, especially during renovations where lighter materials are preferred. With top-notch flexural and tensile strength, Staron® ensures a stable installation that boosts the overall stability of your building. Plus, its impressive fire resistance brings peace of mind, backed by a stellar B-s1 d0 rating(EN 13501-1).

Staron® goes beyond conventional design limitations with its thermoforming capabilities, allowing for stunning curved exteriors that stand out. And when it comes to durability, Staron® shines. Rigorous testing ensures it can withstand the toughest outdoor conditions, maintaining its aesthetic appeal for the long haul. Staron® solid surface for exterior cladding doesn't just elevate aesthetics – it's apractical, safe, and durable choice for outdoor applications.

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#### Dongdaemun Design Plaza

Location: Seoul, South Korea Application: Wall Cladding Designed by Zaha Hadid Architects Pure White SP016







A Crystalbrook Collection Resort

Location: Queensland, Australia
Designed by Tim Bentley, Thomson Adsett

Supreme Delphi VD111

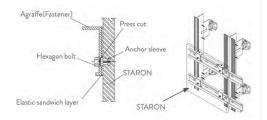
# **CLADDING FEATURES**

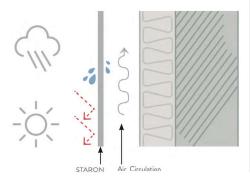
#### EUROPEAN TECHNICAL ASSESSMENT CERTIFIED [ETA-16/0091]

#### **INSTALLATION**

Ventilated facade cladding system and undercut anchor is the official and proper fixing method for Staron® panels of 12 mm thickness.

#### UNDERCUT ANCHOR AND CLADDING FIXING:





# RECOMENDED COLOURS:

Dazzling White SD001 Bright White BW010

Pure White SP016

Quasar White SQ019

Sanded Icicle SI414

Pearl SP011

Aspen Glacier AG612 Aspen Snow AS610

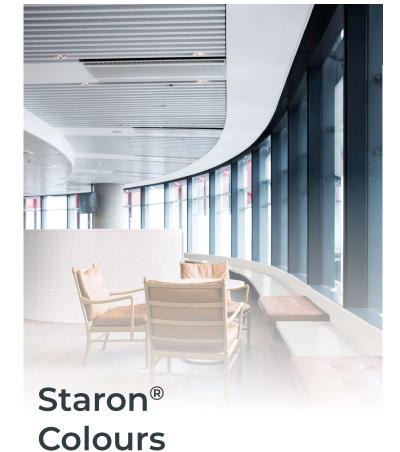
Sanded White Pepper WP410 Sanded Grey SG420



Sanded Heron SH428

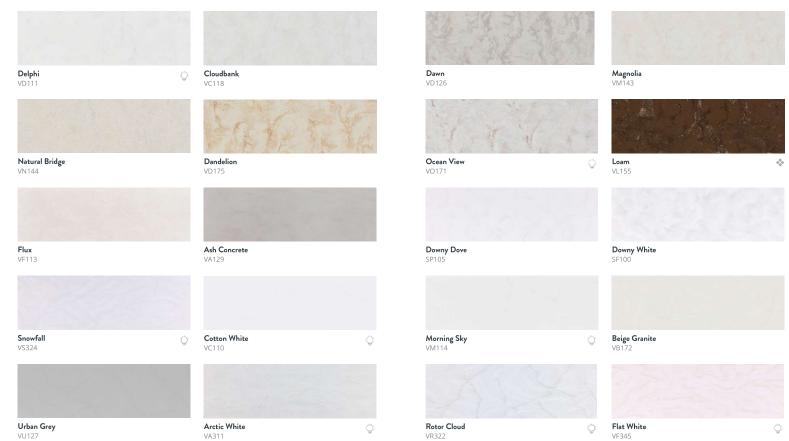
Sanded Sahara SS440

Sanded Vermillion SV430



THE COMPLETE STARON® COLOUR RANGE

# Supreme™



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# Premiere



### Premiere Largo VL312



Premiere Legato VL322



Premiere Gravita VG392









#### **SANDED**



51 Staron® Colours 52

#### **TEMPEST**



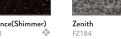
\*\* Caviar



Meteor FM111



Radiance(Shimmer)



Coffee Bean

Quarry Oyster TO310

Terrazzo Bologna

Peak

**QUARRY** 



Mosaic Dalmatian



Quarry Starred(N)

#### **TERRAZZO**



Terrazzo Venezia



Terrazzo Torino

#### **TEMPEST STELLA**



Cygnus FC117



**Vela** FV126

#### **ECLIPSE**



Eclipse White SW412





Eclipse Cream SC444 Eclipse Luna SL477

#### **STUCCO**



Stucco Angora



Stucco Haze

Metallic Yukon

#### **METALLIC**





Metallic Sleeksilver(N)

#### **PEBBLE**



PB870











# **ASPEN**



Pebble Grey PG810

Pebble Saratoga









**Aspen Alder** AA625



Aspen Concrete



Aspen Lily AL645



Aspen Pepper AP640



Aspen Brown

Aspen Glacier AG612

Aspen Snow

The printed colours may differ from actual products. Please contact us for sample request.

High-maintenace requirements.

Translucent colours.



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### **SUPER FLEX**



#### SPECIALISED FORMULA FOR DRAMATIC CURVES & DESIGNS

Staron® Super Flex allows for more dramatic curves and flexibility, resulting in high-performance applications in all commercial, residential, and public space projects. Discover the new Staron innovation and start designing your new futuristic and functional space.

#### HIGH ELONGATION

The elongation rate of Staron® Super Flex is twice as high as that of existing Staron® colours.

#### TIME-SAVING

Staron® Super Flex can be thermoformed at lower temperatures and in shorter heating times compared to the thermoforming process of existing Staron® colours.

'Infinite(IF 188)' for Super Flex is exclusively available for project orders. Please contact us for more information.



## **FORMING**

STARON® panels can be formed at  $150^{\circ}$ C, via either a vacuum or press process. In case of Super Flex, it can be thermoformed at lower temperature as  $140^{\circ}$ C -  $150^{\circ}$ C. The forming radius depends on material thickness and colour.

COLOUR	Panel Thickness (mm)	Radius in (mm)	
Solid, Sanded	6	25	
Solid, Sanded	12	76	
Aspen, Pebble	12	127	
Quarry, Metallic	12	203	
Supreme	12	126	
Super Flex	12	0	

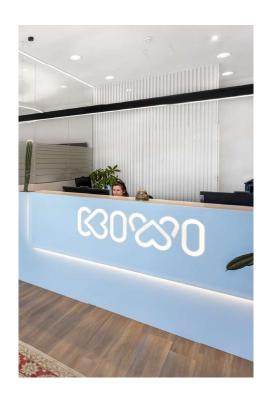
Tempest and Quarry colours are conditionally malleable.

If you have any questions, please contact your STARON®

Customer Springs from



61 Staron® Solid Surfaces Customization Options | 62



# **BACKLIGHTING**

Almost all colours are suitable for partial backlighting of translucent logos or lettering. Full surface backlighting is possible for certain STARON® colours.

Milling out the STARON® panels creates optimal surfaces for LED backlighting for logos or design elements.

Please refer to ,Staron Colours' to check the translucent decors that can achieve the backlight effect.



# SURFACE FINISHES

Matt Finish

staron°



Satin Finish

staron



Gloss Finish

staron

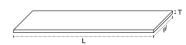


63 Staron® Solid Surfaces

Customization Options | 64

### **PANEL DIMENSIONS**

T minutes	W	L Louis	WAREHOUSE OPERATION	
mm	mm	mm		
19	760	3.680		
12	760	3.680	0	
	930*	3.680	0	
	1.350*	3.680		
	1.520*	3.680		
9	760	3.680		
	930*	3.680		
	1.350*	3.680		
6**	760	2.500	٥	
	930*	2.500		
	930*	3.680		



- \* Only available in Bright White (BW010), Other colours can be also purchased depending on your order quantity.
- \*\* High-maintenance decor themes and panel thick nesses of 6 mm are not recommended for hori zontal surfaces

## **MAINTENANCE & CARE**

The maintenance effort, in general, depends • Never place hot pots or pans directly on on the color and the selected finish. Brighter colors and matte finishes require less care than dark colors and glossy finishes.

#### Standard care and maintenance:

To remove small scratches or stubborn stains from surfaces with matte or satin finishes, gently rub in circular motions using a damp sponge and a mild scouring agent. Afterwards, rinse thoroughly with clear water and dry with a clean cloth to prevent streaking. For dark colors and glossy finishes, refrain from using abrasive cleaners, scrubbing sponges, or wire wool. To maintain the gloss, only use a gentle cleaner.

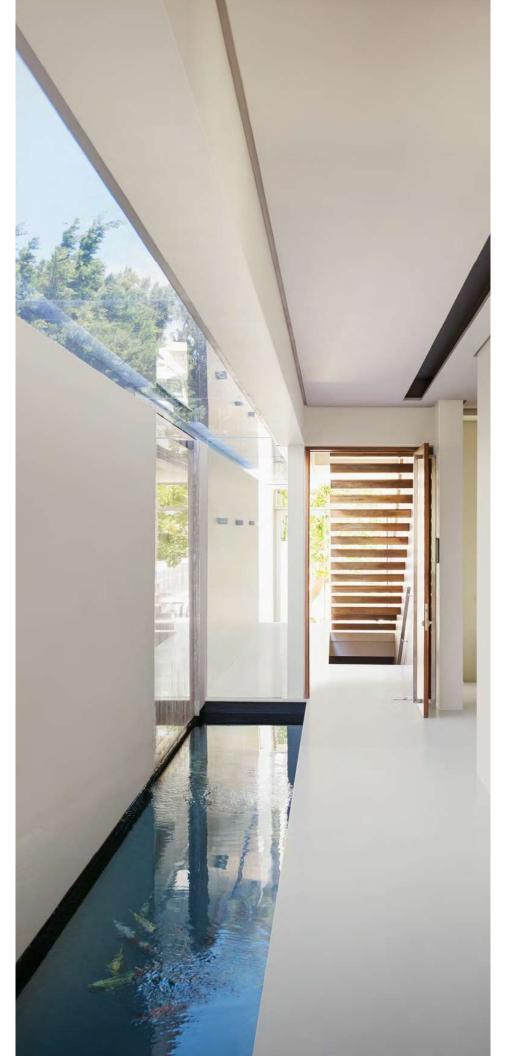
- STARON® surfaces. To prevent heat damage, always use heat-resistant supports orcoasters with soft feet.
- Avoid exposing STARON® surfaces to harsh chemicals or corrosive substances. Rinse immediately after contact.
- Promptly clean off any staining food or residue from the surfaces. Rinse immediately after contact.
- Refrain from cutting directly on STARON® surfaces; always use a cutting

Your joiner-carpenter can repair deeper scratches or stubborn stains by grinding them down.

## PRODUCT INFORMATION

SORT	PROPERTY	TEST METHOD	UNIT	TEST RESULT
Fire resistance	Fire resistance (Euroclass)	EN 13501-1		B-s1 d0
	Fire resistance (Germany)	DIN 4102-1		B1
	Fire resistance (UK)	BS 476 part 6 & 7		class 1
	Fire properties [France]	M2		NFP92-501
	Fire exposure to roofs tests	EN 13501-5		Broof(t1)
	Fire Testing to Railway Components	DIN 45545-2		R1 / HL3
	Fire Testing to Marine interior application	MED IMO B		Approved
Mechanical property	Flexural modulus	EN ISO 178	MPa	10589
	Flexural strength	EN ISO 178	MPa	62,5
	Elongation at break	EN ISO 178	96	0,83
	Charpy impact	EN ISO 179	kJ/m²	1,8
	Compressive strength	EN ISO 604	MPa	181
	Tensile strength	ASTM D 638	psi	6000
	Electrostatic surface resistance	EN 61340-4-1	Ω	>1x1012
	Electrostatic surface resistivity	EN 61340-5-1	Ω	960x109
	Dimentional stability at 20°C - gross	ISO 4586 p10	mm	-0,2
	Dimentional stability at 20°C – weight	ISO 4586 p10	96	-0,2
	Water absorption	ISO 62	23°C, 24h	0,04%
	Resistance to impact	EN 13245-1		no damage
	Thermal conductivity	DIN EN 12664	W/mK	0.53 ~ 0.57
	Thermal resistance	DIN EN 12664	m²K/W	0.083 ~ 0.092
	Thermal expansion	ASTM D 696	mm/mm°c	3.6 * 10-5
	Density	ISO 1183	g/cm³	1,77
	High-pressure decorative laminates	DIN EN 438-2	N	>25
Physical property	Impact resistance (Height)	DIN EN 438-2	mm	1800
	Edge squareness deviations	DIN EN 438-2	mm	Max 0.55
	Dimensional stability	EJ-3862/20	mm	0.02
	Surface hardness(Moh's index)	DIN EN 101		2-3
	Resistance to wear and tear	ISO 4586 p6	g/%	0.56 / 0.26
	Slipresistance of pedestrian surfaces	Annex A and NB.1	16,0°- A	DIN EN 16165
		Annex B and NB.2	16,0° - R 10	DIN EN 16165
	Light fastness	DIN EN 15187	Blue wool scale	> 6
	Load test	EN ISO 19712-2		No cracks/ 0,10 mm
	Resistance to cigarette burns	EN ISO 19712-2		4
	Resistance against dry heat	EN ISO 19712-2		No change
	Resistance against wet heat	EN ISO 19712-2		5
	Chemical resistance	EN ISO 19712-2		Method A
	Resistance to stain	EN ISO 26987		No change
	Antibacterial and fungistatic	DIN EN ISO 846 A/C		No growth
Special usage	Facade fixing authorisation	ETA-16/0091		KEIL / Undercut
	Food equipment materials	NSF/ANSI <sup>3</sup> 51 (Food Zone)		anchor Approved

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#### LOTTE CHEMICAL DEUTSCHLAND GMBH

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