

# The New Generation. Explore. Dream. Discover. **U**LG Hausys

# Set yourself new goals. Follow a different direction. Think outside the box. Bringing ideas to light.

New ideas take shape. Creating space for new partners: HI-MACS® – the material that creates possibilities.

Using a state-of-the-art manufacturing process, HI-MACS® Natural Acrylic Stone™ is made from 75% natural mineral and the finest acrylic. This unique composition produces a material that leaves nothing to be desired in terms of creative freedom and durability.

The translucent shades of HI-MACS® create a mystical transparency when combined with light. This, teamed with the many other qualities of HI-MACS®, inspires designers again and again to create impressive effects.





# It is how we see the world.

It makes a huge difference from which perspective we view the world because it defines how we design the world around us. HI-MACS® is an eco-friendly material in terms of its composition, manufacture and energy balance right through to its virtually "waste-free" fabrication and eventual disposal.





Following six years of intensive research and development by a highly-qualified team of experts, the perfect composition of acrylic, natural minerals and pigments was found: HI-MACS®. It is not only the pioneering production methods, based on the most stringent ecological principles, that are setting new standards, however. We also have almost limitless possible applications and exceptional price-performance ratio. All concrete reasons for using HI-MACS®.

HI-MACS® provides designers with limitless possibilities for personalised design, precisely in tune with the client's wishes and the project requirements. New every time. Dazzling every time. In harmony with the environment every time.





Creativity can be expressed in many different ways. The colour Nebula is shown here.

# We adore successful architects.



creativity amongst the more experienced masters and young, fresh designers alike.

Zaha Hadid, Ron Arad, Marc Newson, amongst many others, have already designed awe-inspiring spaces using HI-MACS®.



Designed by Christian Liaigre. Fabricated by Rosskopf & Partner AG. Photographed by diephotodesigner.de

# And we also encourage young talent.



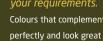
The awe-inspiring buildings of tomorrow are created in the minds of talented young designers, now starting out on their careers. We challenge and support them and provide them with the opportunity to create something extraordinary using our material in international design competitions. Tomorrow's leading lights are still sitting in their Design and Architecture classes today. We specifically support and encourage them because we believe in them today, the "New Generation" of tomorrow.



Designed by Jaro Vetvicka. Fabricated by Polytrade CE.

Designed by Lucia Karpitova. Fabricated by Polytrade CE.





perfectly and look great teamed with materials, like stainless steel, leather and wood. Each one is best friends with HI-MACS®.



shown here - every combination

Left hand side: Designed by Zaha Hadid. Right hand side: Designed by Ron Arad. Fabricated by Rosskopf & Partner AG. Photographed by diephotodesigner.de

# Colours define trends. Trends define colours.

The perfect colouring brings a space to life, creates the right mood, turns dreams into reality and dares to try out something new.

Anything is possible using the wide range of HI-MACS® colours and shades.

The name HI-MACS® is synonymous with an almost limitless spectrum of colours. And every year we add further nuances. Currently in vogue: greyish-brown shades with transparent grains and mother of pearl shimmer, as well as sophisticated textures reminiscent of the highest quality of marble. Irrespective of which shade you opt for: HI-MACS® is homogeneous throughout.



Add textures and patterns into the material to create a completely new perception of space with the use of stunning light effects. Enter new worlds with HI-MACS®.

Ambiances can be impressively designed and highlights created using the translucent qualities of HI-MACS®. Like a work of art, the material continually recreates itself, coming across as heavy and light, sensuous yet esoteric.

Many top hotels and "in vogue" bars have put their complete trust in the visionary interiors created with HI-MACS®. And with stunning success!





# If you think outside the box, you create outside the box.

You decide the shape of the material and where it is to be fitted.

HI-MACS® can be thermoformed to accommodate your ideas and designs –
not the other way round.

### The source of spectacular ideas

Every curve is viable, every shape is possible, every angle is achievable. Forget limits: creative designers can turn any idea, no matter how wild or crazy, into reality using HI-MACS®.

Hexagonal tables with internal lighting, engraved bar counters or thermoformed seating. HI-MACS® offers an infinite number of ideas for architects and fabricators alike. Creating more opportunities for architects and fabricators to work together so that initial ideas quickly become concrete reality.







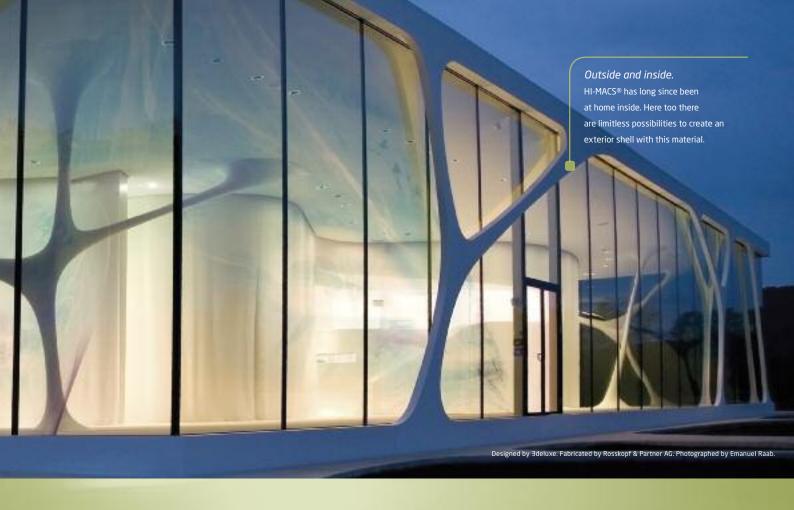


### Pre-cast.

The seamless method of joining HI-MACS® means that sinks or basin can be fitted without visible joints.

### No room for dirt.

The non-porous surface and seamless fabrication create exceptionally hygienic and easy to clean work surfaces.



# Discover new dimensions.

Design never-ending lengths and widths with HI-MACS®. The seamless method of joining the material allows vast expanses to be created without a single edge. For daring ideas, big plans and limitless creativity.

Every client request can be made reality with HI-MACS®, no matter how outrageous or extravagant. Create the potential for revolution, as was the case with the "Leonardo Glass Cube", which also marked the dawn of a new era: for the first time worldwide a mineral material had been successfully used externally - HI-MACS®. The material

was designed in such a way that weathering had no effect on its quality.

Integrated design ideas or a complex interior design scheme – experiment with HI-MACS®, the material will achieve your desired effects.

# The possibilities are infinite. What matters is what you do with them.

You work with HI-MACS® in the same way as you would work with wood. This "Natural Acrylic Stone" material is starting to make inroads into the world of cabinet making. Whatever design you select, HI-MACS® is the perfect partner for innovative ideas.



You can saw, engrave, drill or plane the material and create the most varied multi-dimensional curved shapes, experiment with the translucent quality of the material and much, much more.



### Exploit its potential.

Finely engraved designs or concave curved shelving. The possibilities are untold with HI-MACS®.

# Work it like the finest hardwood.

so much more than that. Creative craftsmen can produce designs using HI-MACS® that are simply without comparison.

d by Zaha Hadid. Fabricated by Rosskopf & Partner AG. Photographed by diephotode



# New roads lead you virtually wherever you want to go.

HI-MACS® is an all-rounder. The material is especially successful in certain sectors of the market.

What tomorrow holds is up to you. Go on, try out a new direction. Use HI-MACS® in a completely new way.

Someone always has to be first. We are ready and waiting.





### Kitchen

Working with food is not a problem for HI-MACS® – the smooth, non-porous surface is repellent to stains and easily to maintained.

### Bathroom

The unique look, waterproof surface and pleasing feel of HI-MACS® make it ideal for use in the bathroom.



# Hospitals and Laboratories

Its flush design and insensitivity to dirt, bacteria and countless chemicals make HI-MACS® an ideal material to use in hospitals and laboratories.

# Airports and Yachts

Fixtures and fittings are subjected to a high degree of wear and tear in airports and in shipbuilding. HI-MACS® fixtures and fittings will still look good and elegant after many years.

# Retail design

In shops, public houses and pharmacies, as well as in the construction of exhibitions stands, the durability of the material, its functionality and stunning appearance are equally important. Good news - HI-MACS® meets all these criteria



Fabricated by A.M.O.S. Design.

Fabricated by Nordstock.

# Furniture design

Shelving, tables, chairs or beds – HI-MACS® is also the material of the future in furniture design and can be used to make classic designs, as well as contemporary ideas, a reality. The possibilities that can be achieved with HI-MACS® inspire designers around the globe and enable creations to be designed, which would never have been feasible with conventional materials

# Façades

HI-MACS® does not only look good inside, it's also perfect to use as an exterior cladding material. Not only because of its apparently seamless joints but also because of a range of different colours with extreme resistance to the effects of weathering.





# Designing without ifs and buts.

HI-MACS® represents the ultimate in quality using a state-of-the-art manufacturing process and raw materials, which are continually updated in our laboratories. We have been doing it this way for over 10 years. In order to meet the exacting standards of the HI-MACS® Quality Club, our fabricators receive exceptional training in authorised training centres. The trust and confidence of our partners is recognised in the long-term: every product, manufactured and fitted by a HI-MACS® Quality Club fabricator, is given a 10 + 5 Year Guarantee.\*

\* The 10 Year Guarantee is extended by a further 5 years when the installation is registered at www.himacs.eu.





# Be part of the New Generation.

When you know what HI-MACS® can do, there will be no stopping you. What are you waiting for? Be part of the New Generation and give your creativity free rein. HI-MACS® is ready and waiting.



# Sinks & Bowls

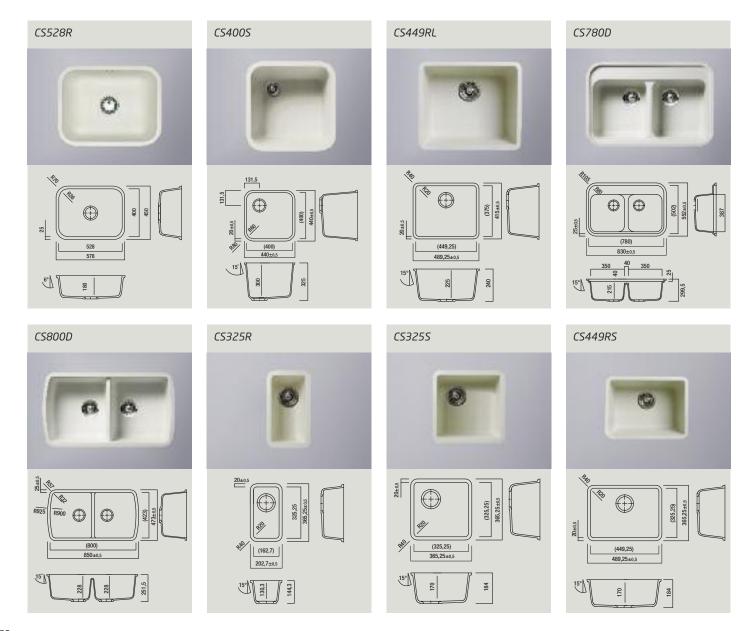
Every option is available to creative designers to design tidy washrooms, kitchens, hospitals and much more with our wide range of HI-MACS® sinks and bowls. Perfectly coordinated and ideal for mixing and matching, the bowls and sinks guarantee a modern look that is easy and simple to look after.

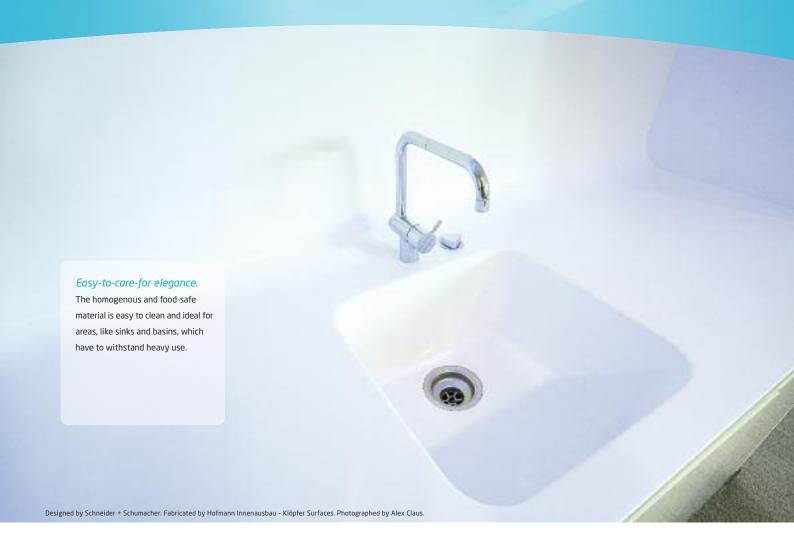
# **HI-MACS® Sinks**

No matter which product of the extensive HI-MACS® range you choose, all sinks are fitted flush with the work surface or inset into it.

### HI-MACS® Sinks (precast)

These HI-MACS® sinks are produced by a highly-efficient casting process and are especially resistant to heat and scratches, yet are perfect for combining with each other.



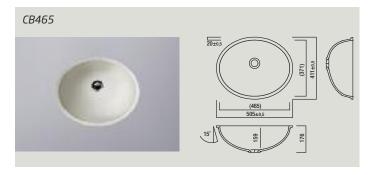


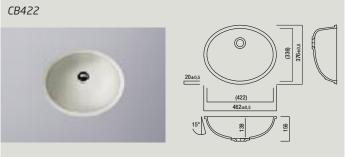
# **HI-MACS®** Bowls

The pleasant, warm feel of the material immediately inspires you - we throw in ease of maintenance free of charge. HI-MACS® bowls are the perfect solution for your dream bathroom.

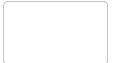
### HI-MACS® Bowls (precast)

Ideal for flush-mounting and inset-mounting in HI-MACS® washstands.





HI-MACS® sinks and HI-MACS® washstands are available in Alpine White S28 and Nougat Cream S201. Warranty: 10 + 5 years on all precast HI-MACS® bowls and sinks.



Alpine White



Only by special order: S01, S02, S03, S04, S05, S06, S09, S29, S204, S214, G106, G107, G108

# Dimensions - Sheet material

### **Standard Format**

Sheet thickness in mm	Sheet width in mm	Sheet length in mm
6	760	2490
9	760	3680
12	760	3680

### **Special Format** \* only by special order

Sheet thickness in mm	Sheet width in mm	Sheet length in mm
6	910 *	2490
12	910 *	3680

HI-MACS® can be supplied in different sheet thicknesses, formats and sizes. Ideal for maximum cutting, minimum wastage and minimal costs.

HI-MACS® FR-version sheets are available in S 28 Alpine White. They have greater fire resistance and comply with the IMO Standard Modules B+D and M1. FR sheets are especially suitable for use in public buildings and as wall panels.

# Chemical resistance

HI-MACS® is a fully homogenous material with no pores and is thus simple and easy to clean.

Test substance	Application time	Evaluation of GO2 changes	Evaluation of S06 changes
Acetic acid	16 hrs	no change	no change
Citric acid	16 hrs	no change	no change
Sodium carbonate	16 hrs	no change	no change
Ammonium hydroxide	16 hrs	no change	no change
Ethyl alcohol	16 hrs	no change	no change
White wine, red wine	16 hrs	no change	no change
Beer	16 hrs	not tested	not tested
Cola drinks	16 hrs	no change	no change
Instant coffee	16 hrs	no change	no change
Black tea	16 hrs	no change	no change
Blackcurrant juice	16 hrs	no change	no change
Cream	16 hrs	no change	no change
Water	16 hrs	no change	no change
Petrol	16 hrs	no change	no change
Acetone	16 hrs	3	3
Ethyl butyl acetate	16 hrs	3	3
Butter	16 hrs	no change	no change
Olive oil	16 hrs	no change	no change
Mustard	16 hrs	no change	no change
Salt	16 hrs	no change	no change
Onions	16 hrs	no change	no change
Lipstick	16 hrs	no change	no change
Disinfectant	16 hrs	no change	no change
Black pen - ballpoint	16 hrs	2	2 - 3
Stamping ink	16 hrs	1	1
Cleaning agent	16 hrs	no change	no change
Cleaning solution	16 hrs	no change	no change
Wear resistance group according to	DIN 68861*	1B	1B
Evaluation according to DIN 68930	Table 1	Requirement met +	
Other work surfaces: wear resistan	ce group: «1C»		according to DIN 68861 & DIN 68930
* 1 A = Excellent: 1E = yery bad	0 ::!! !: 5 !		

<sup>\* 1</sup>A = Excellent; 1F = very bad

<sup>0 =</sup> no visible result; 5 = damaged

# Technical data sheet

HI-MACS® is extremely repellent to dirt and exceptionally hard-wearing, so that you can enjoy many years of pleasure with the outstanding quality of your new product.

pecification	Unit		sult	Test methods
		Solids	Granite	
Flexural-E-modulus	MPa	8900	7730	DIN EN ISO 178
Flexural strength	MPa	70.1	64.3	ASTM D638
Breaking elongation	%	1	1.1	DIN EN ISO 178
Tensile strength	MPa	69.5	56.3	DIN EN ISO 527
Density	g/cm³	1.75	1.65	ISO 1183
	kg/m³	1750	1650	ISO 1183
Ball indentation hardness	N/mm <sup>2</sup>	257	239	DIN EN ISO 2039-1
Mohs hardness		2 to 3	2 to 3	EN 101
Pencil hardness		>9H	>9H	ISO 15184
Water absorption				DIN EN 438 Part 12
weight		<0,1%	<0,1%	
strength/thickness		<0,1%	<0,1%	
mpact resistance				
impactor	N	≥25	≥25	E DIN EN 438, 02/02 Part 2/20
drop ball test (fall height)	mm	≤1500	≤1500	E DIN EN 438, 02/02 Part 2/21
Slip resistance		>0,33	2 - 0,9	GMG100 (replaces R9)
Slip resistance		angle of accepta	nce of more than	DIN 51130
			9° = R10	
Climate change resistance	°C	≤0,05	≤0,05	AMK
Dry heat (pan base)	°C		O (7C)	DIN 68 861, Part 7, 04-'85
Damp heat (pan base)	°C		) (8A)	DIN 68 861, Part 8, 04-'85
Temperature change resistance	°C		nange	UNI 9429
Resistance to cigarette burns	-	6C	6B	DIN 68 861, Part 6, 11-'82
Scratch resistance		4D	4B	DIN 68 861, Part 4, 11-'81
Electrostatics				DIN IEC 1340-4-1, 04-'92
Conductivity	>1x10¹²Ω	insulating no	on-conductive	EN 61340-5-1
Thermal conductivity	W/mK	insulating non-conductive  0.636  0.55		DIN EN 12664
Thermal resistance	m²K/W	0.038	0.045	DIN EN 12664
Thermal	mm/mK	0.048	0.055	DIN EN 14581
expansion co-efficient	m/m/°C		x 10 <sup>-6</sup>	DIN EN 14581
Water vapour permeability	111/111/ C	30.0	X 10	DIN CIV 14301
Diffusion resistance factor		18607	16150	
	μ	10007	10150	DINI CN 310 adit E 1000
Dimensional change by change in relative humidity	0/	0.03	0.03	DIN EN 318, edit. 5, 1998
length	%	-0.03	-0.02	
thickness	%	0.06	0.03	
mass	%	0.05	0.05	C DIN CN 430, 03/03 T-11 3/43
Resistance to boiling water	0/	(0.1	(0.1	E DIN EN 438, 02/02 Teil 2/12
increase in weight	%	<0,1	<0,1	
increase in thickness	%	<0,1	<0,1	DIN 52 207 0 / /22
Light fastness (Xenon)	scale 0-10	better than 6	better than 6	DIN 53 387, 04-'89
Food tolerance			r all colours	LMBG § 31
Hygiene		suitable	suitable	LGA Hygiene Certificate
Fire protection classification Flame-retardant properties M	IPA/NRW		B1	DIN 4102-1
HI-MACS® MPA/NRW		non-drippi	ng material	DIN 5510
(BAM) 12 mm		B1 for all colours*		
(BAM) 9 mm + back-up		B1 for all colours*		DIN 4102-1
(Bodycote/Warrington) 12 mm		B-s1, d0		BS EN ISO 11925-2 : 2002
		for all HI-MACS® colours*		BS EN 13823: 2002
		complies with	BS 475 class 0	

# **Colours**

Colours are key in design. Elegant white, warm Toffee Brown or mystical Cima.

We have whatever colour you want - it's your choice.

# Galaxy



With transparent grains and mother of pearl shimmer, as if from another world.



Uranus T 02 [12 mm]



Nebula T 10 [12 mm]



Venus T 11 [12 mm]



Mars T 16 [12 mm]

# Marmo



You will be captivated by its sophisticated texture, reminiscent of marble.



Torino M 101 [12 mm]



Bologna M 103 [12 mm]



Roma \* M 104 [12 mm]



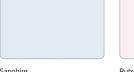
Verona \* M 105 [12 mm]



### Lucent

When combined with precisely positioned light sources, the translucent pastel shades become transformed into dramatic design "highlights".









Opal S 302 [12/6 mm]

Sapphire S 303 [12 mm]

Ruby S 304 [12 mm]

Emerald S 305 [12 mm]

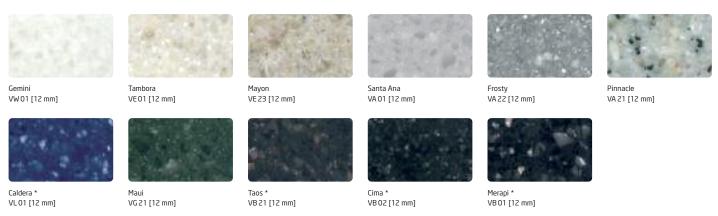
### Solids

From elegant to extravagant, classic to ultra-contemporary - this is a limitless collection.

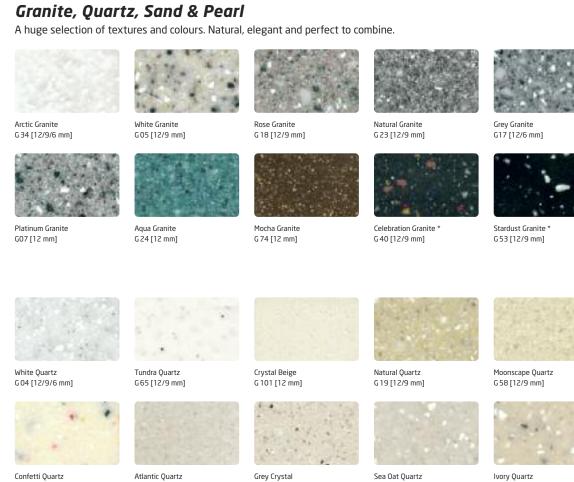


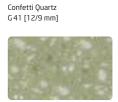
## **Volcanics**

Full of depth and mysticism, akin to a precious natural stone but with all of the advantages of "Natural Acrylic Stone".



The basic HI-MACS® material is identical for every colour, although darker hues have a higher percentage of natural pigments, which need more careful care and attention. Colours indicated with a \* are more suitable for surfaces which are subject to less wear and tear and are therefore used more often for contrasts or inlay work. There may be some slight variation in colour between the illustrated and actual colours due to printing techniques.







G51 [12 mm]





Riviera Sand

G 106 [12/9 mm]

G 102 [12 mm]







G38 [12/9 mm]

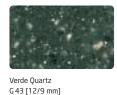




G 30 [12/9 mm]

Almond Pearl





Greystone Granite G 60 [12 mm]

Black Granite \*

G 31 [12/9 mm]

Peanut Butter

G 100 [12 mm]

Aztec Quartz

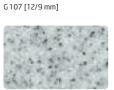
G 33 [12/9 mm]





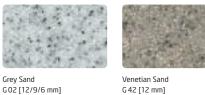






Pebble Pearl

Turquoise Sand G 27 [12/9 mm]

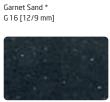




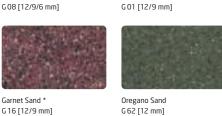


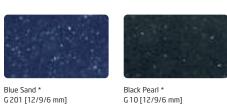


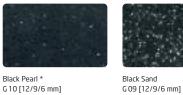














# We would be pleased to provide you with details and information.

HI-MACS®. The New Generation.

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# www.himacs.eu

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