

# HI-MACS®

Acrylic Solid Surface





# DESIGN WITHOUT COMPROMISE

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**HI-MACS**<sup>®</sup>  
Acrylic Solid Surface

# DESIGN FREEDOM

THE FLEXIBILITY OF HI-MACS ALLOWS IT TO BE USED ON ANY NUMBER OF VERTICAL AND HORIZONTAL APPLICATIONS. WHETHER COMMERCIAL OR RESIDENTIAL, HI-MACS GIVES AN IMPRESSIVE LOOK TO ANY PROJECT AND IS LIMITED ONLY BY YOUR IMAGINATION



## WHY CHOOSE HI-MACS

**HI-MACS** enhances the elegance and harmony of your living and working environments with natural beauty and the synthesis of design and creativity. HI-MACS is an advanced non-porous, highly versatile decorative surface material suitable for high wear areas such as kitchens, laboratories and hotels. It is available in a wide range of colours and patterns.

## FEATURES

- Easy to clean
- Seamless joins
- Thermoforming capabilities
- Design flexibility
- Repairable if scratched or chipped
- Extensive edge treatment options
- Acrylic resins add extra strength
- Non-porous – maintaining a long-life hygienic surface
- 10-year limited warranty
- Ecospecifier and Green Guard certified

## ENVIRONMENT

HI-MACS is Green Guard Indoor Quality Certified for schools and living environments. HI-MACS has been independently assessed by Ecospecifier and is included on their list of environmentally preferable materials and products. In addition this product may contribute to the achievement of Green Star credit points. Please see page 20 for more details.



## APPLICATIONS

- Kitchen benchtops and splashbacks
- Vanity tops
- Retail counter tops
- Shopfitting
- Restaurant and café tables
- Commercial food preparation areas
- Reception counters and office desks
- Laboratory benchtops
- Integrated sinks, baths and shower units
- Wall cladding / Cabinetry
- Mouldings / Sills

## HI-MACS COMPARISON TABLE

FINISHING MATERIAL	Repairable	Seamless Joins	Design Flexibility	Stain Repellent	Non Porous Easy to Clean
HI-MACS	✓	✓	✓	✓	✓
Tile	✓	✗	✗	✗	✗
Natural Stone	✗	✗	✗	✗	✗
Engineered Stone	✗	✗	✗	✓	✓
Laminate	✗	✗	✗	neutral	neutral

# REPAIRABLE

HI-MACS NOT ONLY OFFERS DESIGN FLEXIBILITY, BUT PROVIDES A NUMBER OF MAINTENANCE ADVANTAGES AS WELL. THIS NON-POROUS MATERIAL IS BOTH STAIN AND IMPACT RESISTANT, PROVIDING GREATER DURABILITY THAN TRADITIONAL MATERIALS AND CAN BE REPAIRED IF SCRATCHED OR CHIPPED.





PAGE 4 TOP MELBOURNE RESIDENCE / COLOUR GEMINI  
DESIGN: SAAJ DESIGN / PHOTO: SAAJ DESIGN  
FABRICATION: S&A CABINETS

PAGE 4 BOTTOM ADELAIDE ALBY TURNER SHOWROOM  
COLOUR: TAPIOCA PEARL / DESIGN: ROGER SALIBA  
FABRICATION: SOLID SURFACE TECHNIQUES

PAGE 5 TOP STUTTGART, GERMANY PORSCHE MUSEUM  
COLOUR ALPINE WHITE / DESIGN: DELUGAN MEISSL  
FABRICATION: ROSSKOPF & PARTNERS AG / PHOTO: ZOOEY BRAUN

PAGE 5 BOTTOM CITY BAR / COLOUR: ALPINE WHITE/COFFEE BROWN  
DESIGN: NACHO MOSCARDO / FABRICATION: FUTPER SA  
PHOTO: ZOOEY BRAUN



## RECENT PROJECTS

DESIGNERS AND ARCHITECTS HAVE CREATED STUNNING DESIGNS USING HI-MACS AND HAVE BEEN INSPIRED BY THE EXCITING OPPORTUNITIES PRESENTED BY THE FLEXIBILITY OF THE MATERIAL.





Torino ◆M101



Nebula T010



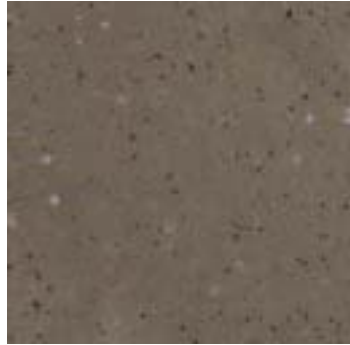
Venus T011



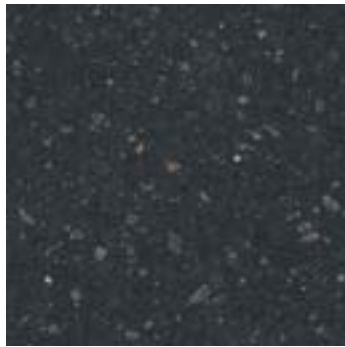
Bologna ◆M103



Roma\* ◆M104



Verona\* ◆M105



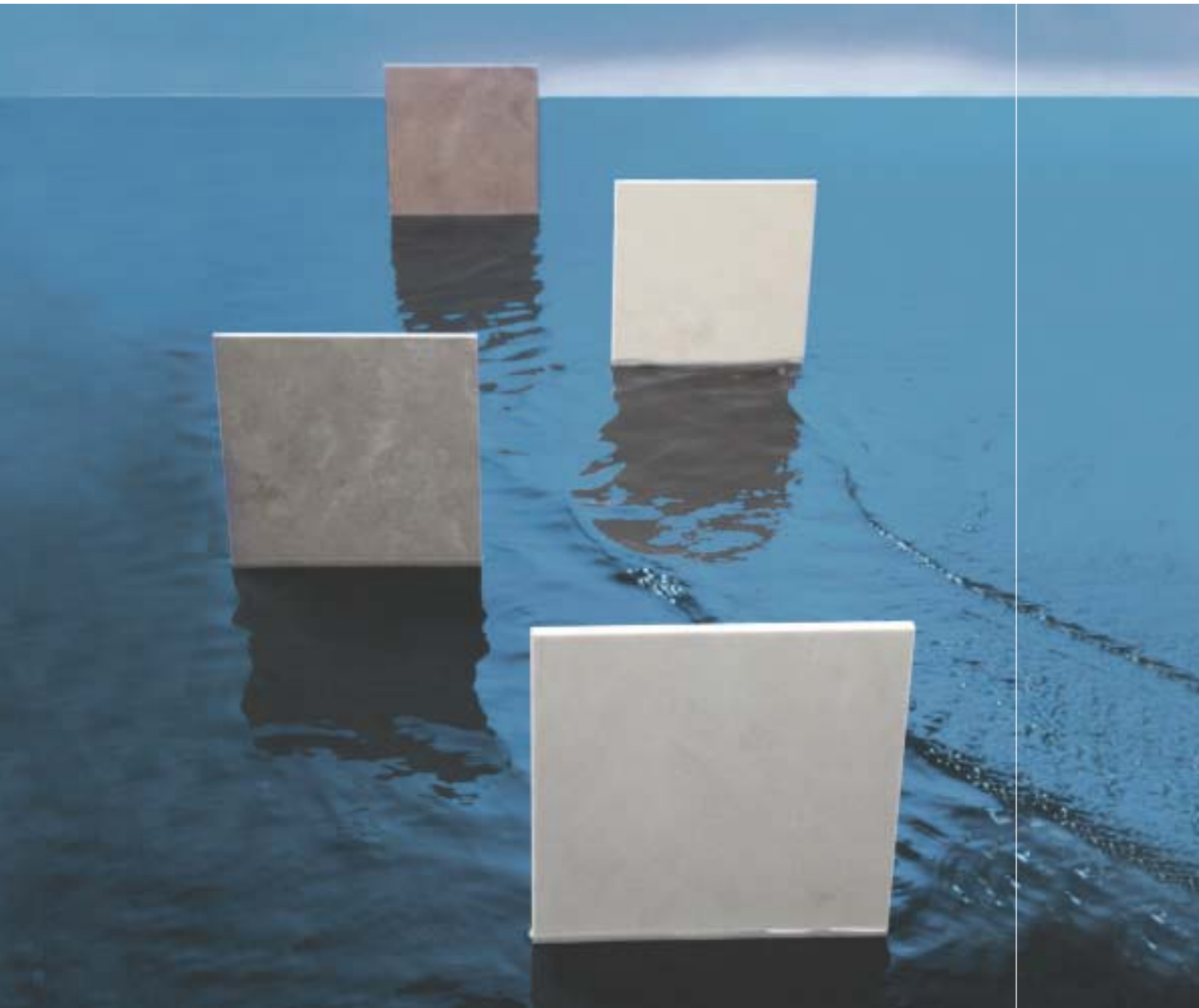
Pluto\* T013

◆To give the appearance and beauty of a natural marble effect, these colours have a random pattern. This means the joining process is different and needs to be discussed with your fabricator. Must view actual product prior to purchase

\*The raw materials used in HI-MACS® are identical for all colours but there is a higher percentage of natural pigments used in darker tones that need more intensive care. The colours highlighted with an asterisk are therefore more suited to surfaces that will be subjected to less wear and tear and are thus preferably used as contrasts or for inlay work. There may be deviations between the illustrated and actual colours owing to your screen display.

DESIGN WITHOUT COMPROMISE





## PRESTIGE

HI-MACS PRESTIGE IS A NEW RANGE OF SEVEN SOLID SURFACE COLOURS FOR COMMERCIAL AND DOMESTIC APPLICATIONS. IT HAS INCREDIBLE DEPTH AND RICH COLOURINGS THAT WILL DELIGHT INTERIOR DESIGNERS, ARCHITECTS, COMMERCIAL DEVELOPERS AND HOME OWNERS.





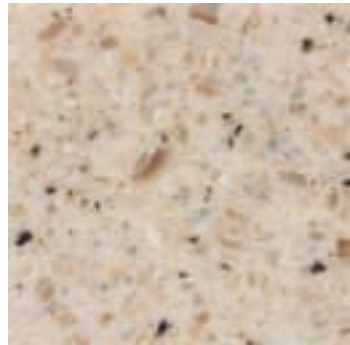
# VOLCANICS



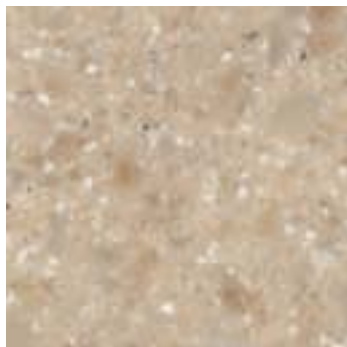
Gemini VW01



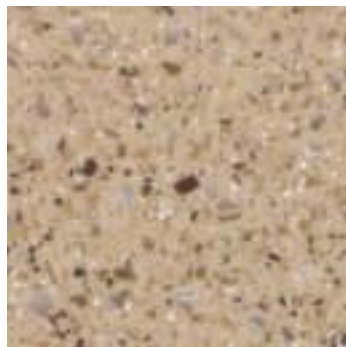
Tambora VE01



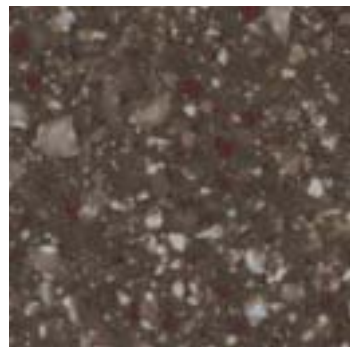
Lattitude VE21



Mikeno VE02



Shasta VE26



Latte\* VN02



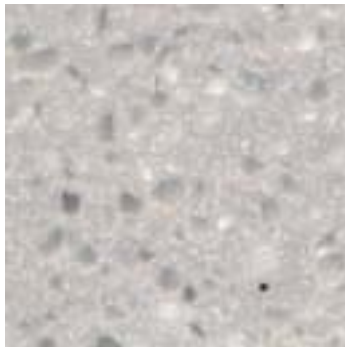
Kohala\* VN24



Taos\* VB21



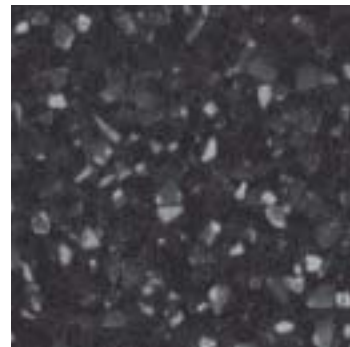
THE VOLCANICS RANGE HAS A TRANSLUCENT FINISH THAT LIFTS ARCHITECTURAL DESIGN INTO A NEW REALM.



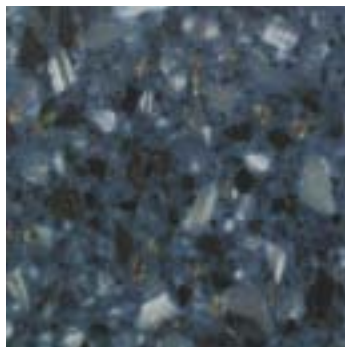
Santa Ana VA01



Vesuvio VA23



Merapi\* VB01



Santorini\* VL21

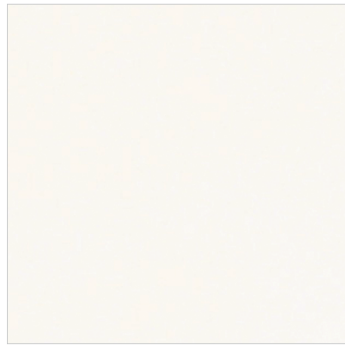


Stellar\* VR21

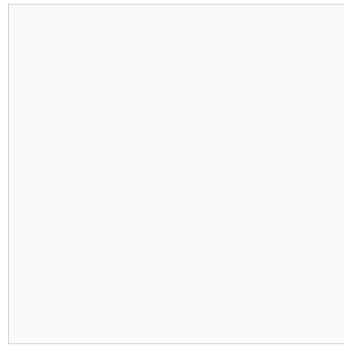
\*The raw materials used in HI-MACS® are identical for all colours but there is a higher percentage of natural pigments used in darker tones that need more intensive care. The colours highlighted with an asterisk are therefore more suited to surfaces that will be subjected to less wear and tear and are thus preferably used as contrasts or for inlay work. There may be deviations between the illustrated and actual colours owing to your screen display.



# HI-MACS



Alpine White S28



Arctic White S06



Perna White P01



Tundra Quartz G65



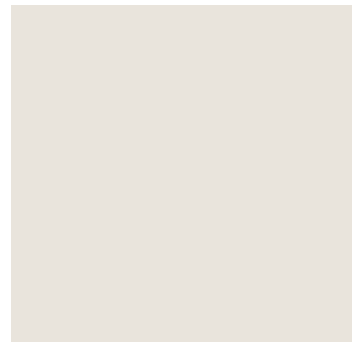
Corona G110



Arctic Granite G34



White Quartz G04



Satin White S01



HI-MACS IS THE IDEAL MATERIAL FOR BENCHTOPS AND OTHER SURFACE APPLICATIONS WHERE DURABILITY, VERSATILITY AND LASTING BEAUTY IS ESSENTIAL.



Crystal Beige G101



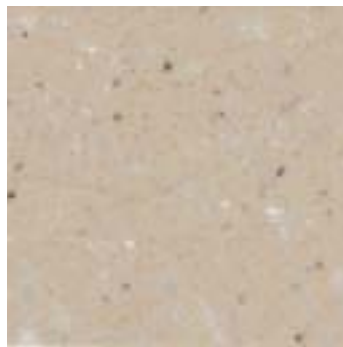
Beige Island G109



Cream S09



Beach Sand G48

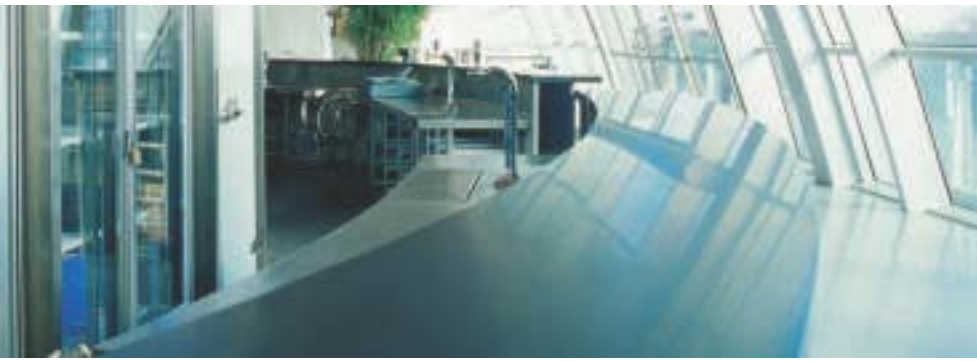


Peanut Butter G100



Allspice Quartz\* G63

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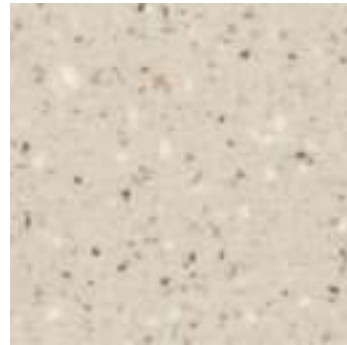
# HI-MACS



Tapioca Pearl G50



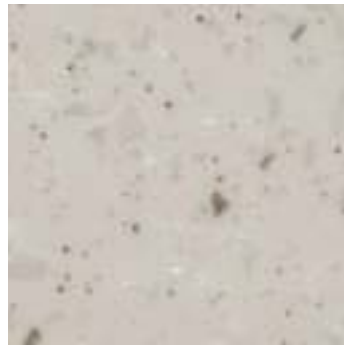
Sea Oat Quartz G38



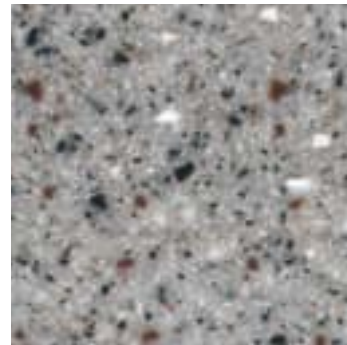
Macchiato G111



Caramel G112



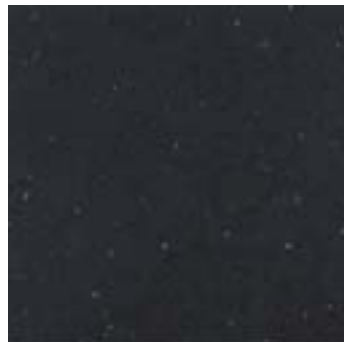
Gray Crystal G102



Platinum Granite G07



Perna Black\* P04



Black Pearl\* G10



HI-MACS ALLOWS FOR SEAMLESS JOINS GIVING EVERY SURFACE A SLEEK, SMOOTH FINISH.



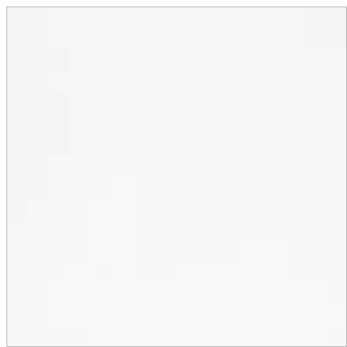
Banana\* S26



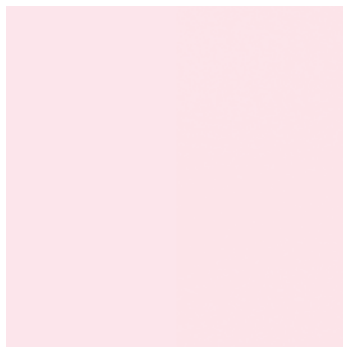
Fiery Red\* S25



Black\* S22



LUCENT Opal S302



LUCENT Ruby S304



LUCENT Emerald S305

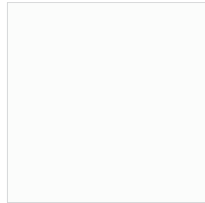


LUCENT Sapphire S303

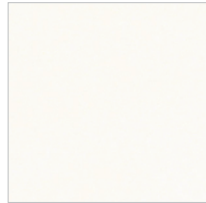
**LUCENT:** Solid surface material which can be backlit to achieve different colours and lighting effects

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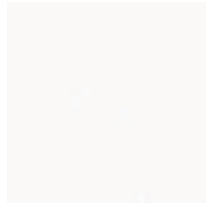
# THE AUSTRALASIAN RANGE



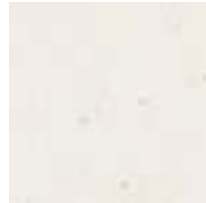
Arctic White S06



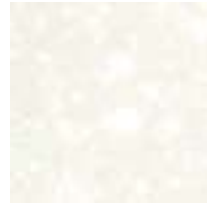
Alpine White S28



Perna White P01



Torino M101



Arctic Granite G34



White Quartz G04



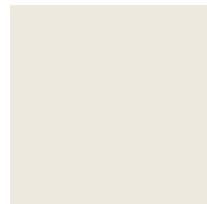
Nebula T010



Tundra Quartz G65



Tapioca Pearl G50



Satin White S01



Gemini W01



Corona G110



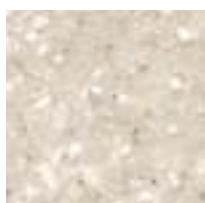
Bologna M103



Crystal Beige G101



Tambora VE01



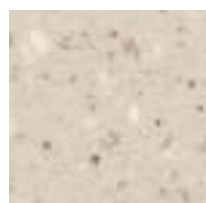
Sea Oat Quartz G38



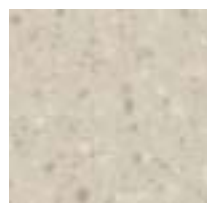
Beige Island G109



Venus T011



Macchiato G111



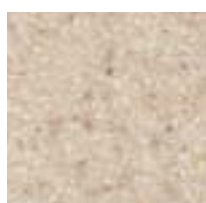
Caramel G112



Lattitude VE21



Cream S09



Beach Sand G48



Peanut Butter G100



Mikeno VE02

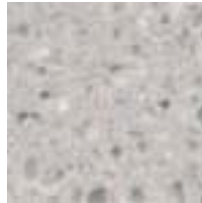
FROM BOLD CLEAR SOLIDS TO BRILLIANT GRANITE EFFECTS,  
THE HI-MACS RANGE OFFERS A VAST ARRAY OF TONAL MOODS  
TO SUIT ANY RESIDENTIAL OR COMMERCIAL PROJECT.



Shasta VE26



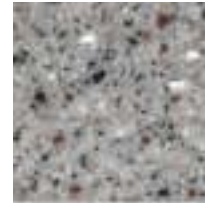
Gray Crystal G102



Santa Ana VA01



Roma\* M104



Platinum Granite G07



Vesuvio VA23



Latte\* VN02



Allspice\* Quartz G63



Verona\* M105



Kohala\* VN24



Stellar\* VR21



Santorini\* VL21



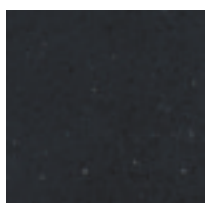
Taos\* VB21



Merapi\* VB01



Pluto\* T013



Black Pearl\* G10



Perna Black\* P04



Black\* S22



Banana\* S26



Fiery Red\* S25



Lucent Sapphire S303



Lucent Emerald S305



Lucent Ruby S304



Lucent Opal S302

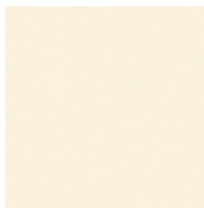
◆To give the appearance and beauty of a natural marble effect, these colours have a random pattern. This means the joining process is different and needs to be discussed with your fabricator. Must view actual product prior to purchase

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Colours illustrated are matched as closely to the original colour as the printing processes allow. Actual product samples should be viewed to determine true colours



## THE INTERNATIONAL RANGE



Nougat Cream S201



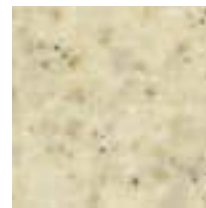
Iceberg G113



Moonscape Quartz G58



Natural Quartz G19



Oreo Crunch G104



Ivory Quartz G30



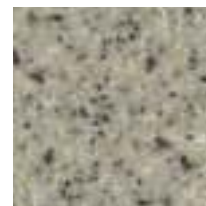
White Granite G05



Desert Sand G01



Gray Sand G02



Venetian Sand G42



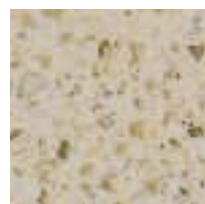
Venice M102



Phobos T014



Comet T006



Cosmo T005



Mercury T003



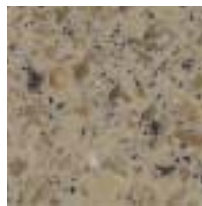
A RANGE OF HI-MACS INTERNATIONAL COLOURS IS AVAILABLE. PLEASE ENQUIRE AT YOUR NEAREST GUNNERSEN BRANCH FOR FURTHER DETAILS ON COLOURS, LEAD TIMES AND MINIMUM QUANTITIES.



Triton T007



Eclipse T012



Uranus T002



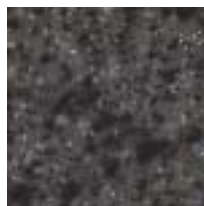
Jasmine Green\* S101



Black Sand\* G09



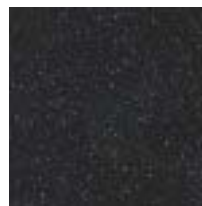
Mocha Granite\* G74



Gray Onix\* G103



Stardust Granite\* G53



Black Bird\* G47



Neptune\* T015



Lo\* T009



Black Hole\* T001



Jupiter\* T008



Saturn\* T004

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# WARRANTIES / CARE & MAINTENANCE

## INTERNAL USE

### HI-MACS 10-YEAR LIMITED WARRANTY

LG Hausys expressly warrants that it will repair or replace this product, free of charge if it fails due to any manufacturing defect in materials or workmanship during the first 10 years after initial installation.

The warranty is extended only to the original purchaser and may not be transferred or assigned. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered. LG Hausys' obligation is limited solely to the repair or replacement of the products purchased hereunder, including reasonable and necessary labour charges.

See full warranty for details at: [www.hi-macs.com.au](http://www.hi-macs.com.au)

## EXTERNAL USE

### HI-MACS 5-YEAR LIMITED WARRANTY

LG Hausys expressly warrants that it will repair or replace this product, free of charge if it fails due to any manufacturing defect in materials or workmanship during the first 5 years after initial installation.

This warranty applies to external use for the following HI-MACS colours in 12mm thickness only:

COLOUR	CODE
Alpine White	S28
Arctic Granite	G34
Beach Sand	G48
Confetti Quartz*	G41
Cream	S09
Gray Sand*	G02
Ivory Quartz*	G30
Sea Oat Quartz	G38
White Quartz	G04
White Granite*	G05

\*Denotes a colour from the International Range

Test results have established that in an external application, these colours will show the least amount of colour change.

## HI-MACS FINISHES

The final finish of your HI-MACS surface will be determined by you and your certified fabricator. It can be a matt, satin, semigloss or high-gloss finish or any level of sheen you prefer. The finish selected will also determine how you care for the surface in order to retain its original finish. Matt finishes and lighter colours require a moderate level of maintenance whereas dark colours and gloss finishes require a higher level of care. Please consult your fabricator on the colour and finish option most suitable for your application.

## CLEANING

While everyday spills can be removed using a damp cloth and a general purpose cleanser (Ajax Spray n' Wipe), stubborn marks such as food, dye, tea and fruit drinks may require more rigorous cleaning methods. These items can be removed using bleach diluted 1:1 (1 part water : 1 part bleach) followed by a general purpose cleanser (Ajax Spray n' Wipe). However, bleach should only come in contact with the surface for a maximum of two minutes.

## STAIN RESISTANCE

COLOUR	CODE
<b>Classification</b>	<b>Result</b>
Water marking pen (black), coffee, tea, scotch, milk, distilled liquor, edible oil, urine, iodine fluid (10%), etc	Easily removed with water
Crayon, lipstick, water marking pen (red), etc.	Removed with neutral detergents
Oil marking pen, eye liner pencil, etc.	Removed with cleanser

# SPECIFICATIONS

## HOW TO SPECIFY

Surfacing shall be HI-MACS Solid Surface of a nominal thickness of 12mm, as supplied by Gunnersen Pty Ltd.  
Colours and/or patterns shall be \_\_\_\_\_ Code \_\_\_\_\_ in \_\_\_\_\_ finish.

SIZE		
Length	Width	Thickness
3680mm	760mm	12mm
2490mm	760mm	6mm*

### HI-MACS FR

The HI-MACS FR series has been developed with enhanced fire retardant properties and has obtained IMO certification. Available in a range of five colours (Alpine White, Grey, Arctic White, Ivory White & Nougat Cream) contact your branch to discuss your requirements.

CHEMICAL RESISTANCE			
Classification	Change	Classification	Change
Hydrochloric Acid (20%)	0%	Methyl Alcohol	0%
Sulphuric Acid (20%)	0%	Toluene	0%
Ammonia (28%)	0%	Xylene	0%
Sodium Hydroxide (40%)	0%		

\*Available in a limited range of colours.

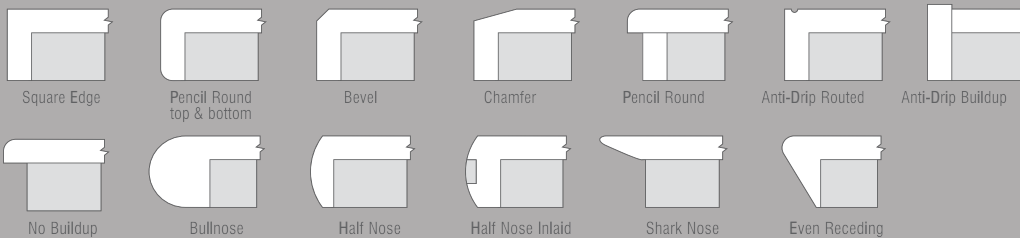
### PHYSICAL PROPERTIES

PROPERTY	TEST	UNIT	TEST						
			Solid	Sand/Pearl Granite/Perna	Volcanics	Volcanics Natural	Lucent	Marbella	Galaxy
Specific Gravity	ASTM D 792		1.70±0.05	1.67±0.05	1.67±0.05	1.67±0.05	1.67±0.05	1.67±0.05	1.67±0.05
Rockwell Hardness	ASTM D 785		≥90	≥88	≥88	≥90	≥90	≥88	≥90
Barcol Hardness	ASTM D 785		63±3	61±3	61±3	61±3	61±3	61±3	61±3
Tensile Strength	ASTM D 638	MPa	44.1	40.1	27.9	30.9	35.6	33.3	35.7
Tensile Modulus	ASTM D 638	GPa	9.86	9.41	8.24	9.37	9.84	9.71	9.12
Flexural Strength	ASTM D 790	MPa	77.1	68.6	58.6	41.3	66.1	40.2	45.2
Flexural Modulus	ASTM D 790	GPa	9.29	8.93	8.07	8.64	8.18	7.17	8.40
Izod Impact Strength	ASTM D 256	KJ/m <sup>2</sup>	5.6	4.8	3.4	5.9	5.8	5.5	3.6
Pencil Hardness	KS D 6711	H	≥6	≥6	≥6	≥6	≥6	≥6	≥6
Water Absorption	ASTM D 570	%	≤0.035	≤0.040	≤0.040	≤0.018	≤0.028	≤0.018	≤0.019
Heat Distortion Temp	ASTM D 648	°C	≥104	≥102	≥100	≥100	≥104	≥99	≥99
Thermal Expansion	ASTM D 696	1/°C	≤3.5*10 <sup>-5</sup>	≤3.8*10 <sup>-5</sup>	≤3.8*10 <sup>-5</sup>	≤3.8*10 <sup>-5</sup>	≤3.2*10 <sup>-5</sup>	≤3.2*10 <sup>-5</sup>	≤3.2*10 <sup>-5</sup>
Weather Resistance	ASTM D 1499		No change	No change	No change	No change	No change	No change	No change
Heat Water Resistance	JIS K 6902		Pass	Pass	Pass	Pass	Pass	Pass	Pass

All HI-MACS products are manufactured to ISO 9001 quality procedures for systems and processes, as well as ISO 14001 environmental protection standards.

## EDGE TREATMENTS

These are just some of the limitless design possibilities available for edge detail.



# ENVIRONMENT

HI-MACS is manufactured by LG Hausys, a member of the LG Group that produces chemicals, electronics and telecommunications products and operates in over 80 countries.

LG aims to be a leading business group in environment, safety, and health affairs, striving to improve environmental quality and to enhance the level of occupational safety and health and ensure the sound and sustainable development of the global community through the use of LG's extensive knowledge and innovative technology.

HI-MACS have a number of environmental accreditations, which include:

- Green Guard Indoor Air Quality Certification and the more rigorous Green Guard Children and Schools Certification. Green Guard Environmental Institute is an established third-party product certification program for low emitting interior building materials, furnishings and finish systems used in educational and office surroundings.



HI-MACS has been independently assessed by Ecospecifier (AUS/NZ) and is included on their list of environmentally preferable products. In addition, Ecospecifier has determined that this product may contribute to Green Star credit points.

- ISO 14001- All products are manufactured to ISO14001 environmental standards
- It has been awarded the outstanding environmental building material by KACA (Korean Air Cleaning Association).
- HI-MACS has earned the highest level of certification from the KEITI under the Korean Ministry of Environment (HB Mark, TVOC (0.1/h or below), formaldehyde (0.015/h or below)) in terms of indoor air pollutant release criteria.



# REFERENCE

**FRONT COVER** ARCTIC WHITE / ROUTED AND BACKLIT COUNTER AND SIDE PANEL.  
GOETHE10, GERMANY.

## **INSIDE FRONT COVER**

TOP LEFT ARCTIC WHITE / ROUTED AND BACKLIT BAR, HOTEL RUERTA AMERICA, CHRISTIAN LIAIGRE.

TOP MIDDLE BLACK / BATHROOM, RON ARAD.

TOP RIGHT MACCHIATO / TABLE OMAROO OUTDOOR FURNITURE RANGE.

DESIGNER: SEAN DUNPHY. COMPANY: LAIDIR FABRICATOR: NORFORD INDUSTRIES.

BOTTOM ALPINE WHITE / BATHROOM.

**PAGE 1** ALPINE WHITE / 'THE THINKING ROOM', WALLS & TABLE, DAEJEON TECH.

## **PAGE 3**

TOP ARCTIC GRANITE / PRIVATE RESIDENCE BENCHTOP, TOWNSVILLE.

BOTTOM ALPINE WHITE / BASIN AND BATH.

**PAGE 6** ARCTIC GRANITE / BENCHTOP, PRIVATE RESIDENCE.

**PAGE 7** PRESTIGE LAUNCH PHOTO, REZ DESIGN & ADVERTISING, PAUL SCOTT.

**PAGE 8** TAMBORA / KITCHEN BENCH.

## **PAGE 9**

LEFT MERAPI / RECEPTION COUNTER, SOUTH TERRACE DENTAL. DESIGN: JOANNE CAMENS. PROJECT MANAGED:

DENTAL PROJECT ADELAIDE. CABINETRY: CABINETS DIRECT. FABRICATOR: SOLID SURFACE TECHNIQUES.

RIGHT MIKENO / KITCHEN BENCH, PRIVATE RESIDENCE, VICTORIA.

## **PAGE 10**

LEFT ARCTIC GRANITE / OFFICE FURNITURE.

RIGHT ARCTIC GRANITE / BENCHTOP, PRIVATE RESIDENCE.

## **PAGE 11**

LEFT ARCTIC WHITE / KITCHEN BENCHTOP, DESIGN: VEDUM.

RIGHT ARCTIC WHITE / BENCHTOP, PRIVATE RESIDENCE.

## **PAGE 12**

LEFT BLACK / COUNTERTOP, FLEMINGTON RACECOURSE, VICTORIA.

RIGHT ALPINE WHITE AND FIERY RED / VODAFONE NZ.

## **PAGE 13**

LEFT BLACK / CAFÉ COUNTER TOP, ORTRUGAARD MUSEUM, GERMANY.

RIGHT BANANA / PRAGUE AIRPORT.

## **PAGE 16**

LEFT ARCTIC WHITE / LEONARDO GLASS CUBE. DESIGN: 3DELUXE, GERMANY.

FABRICATOR: ROSSKOPF & PARTNER AG, BAD DRIBURG, GERMANY. PHOTOGRAPHY: EMMANUEL RAAB

RIGHT FIERY RED / PUERTA AMERICA HOTEL BATHROOM, MADRID. DESIGN: RON ARAD.

**PAGE 17** ALPINE WHITE / WINE BAR AT HOTEL PUERTA AMERICA. PHOTOGRAPHY: RAFAEL VARGAS .

DESIGN: CHRISTIAN LIAIGRE IN COLLABORATION WITH ROSSKOPF & PARTNERS.

DESIGN WITHOUT COMPROMISE

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