



SICIS

What makes
unique our
glass mosaic

over **30** years
of production

more than
4000
colors

8
tesserae
shapes

16
finishes



SICIS®

In **1988** we brought back the mosaic from the limbo of history to the modern era.

We have given it a name (SICIS), a shape (tessera size 15x15mm), **a life** (The SICIS Collections), **a material** (glass, marble, steel, Murano Smalto, Glimmer, Waterglass, Firefly, Iridium, Crystal, Diamonds, Clover, Tephra, Natural) **and a future.**

We built our house (Factory) **in Italy and created an art industry.**

The largest in the world.

We introduced it to the world of design and everyone was fascinated by our product. It has been and is used worldwide in important projects of all kinds.

Who, not knowing SICIS, used imitations was disappointed by the results. Many try to copy us, many let the customers believe that mosaic is only a small tile. It is not.

This document aims to provide some information to SICIS customers, how our product is made, our mosaic, how it is supplied, what it allows to do and why it is unique and exclusive.

SICIS®



SICIS produces entirely in Italy, in the Ravenna area, all the collections of **Murano glass tiles**.

Following the ancient method, the tesserae are composed of silicon and minerals melted at very high temperatures and **it is the content itself that determines their quality and the first substantial difference** with all the rest of the products on the market.

SICIS is the only company in the world to put a proportion of 70% of precious minerals, while the other manufacturers use exactly the opposite parameter.

The supply of minerals qualifies their excellent characteristics, strength, brightness, iridescence, transparency, coloring.



our Mosaic





SICIS®

our identity

Our format 15x15mm

In 1988, glass mosaic was known in the 20x20mm format.

SICIS produces a unique mosaic, with different and precious materials. To make itself immediately recognizable in the market, therefore it creates an unedited format that identifies the company. This avoids being confused and being able to immediately highlight the originality of its tesserae.

SICIS®

Unique tiles for a unique product

The other important difference is the tessera itself.

SICIS, starting from the study of traditional techniques, has developed and patented an **industrial production system that allows to create its tesserae as in the tradition**, each different from the other. **Each tile is unique**, not planar, to allow the vibration of the light, and with some unique marks as in past. In all other productions

on an industrial scale, the tesserae are all the same, opaque in color, rough on the surface. The others' tiles are therefore not mosaic but simple tiles, completely losing the intrinsic meaning, the charm of the mosaic, the art.

SICIS entire mosaic chain is the result of a wise and rigorous development and experimentation activity, avant-garde and pride of the Italian industry, in total harmony with the artisan dynamics that dictate the guidelines.



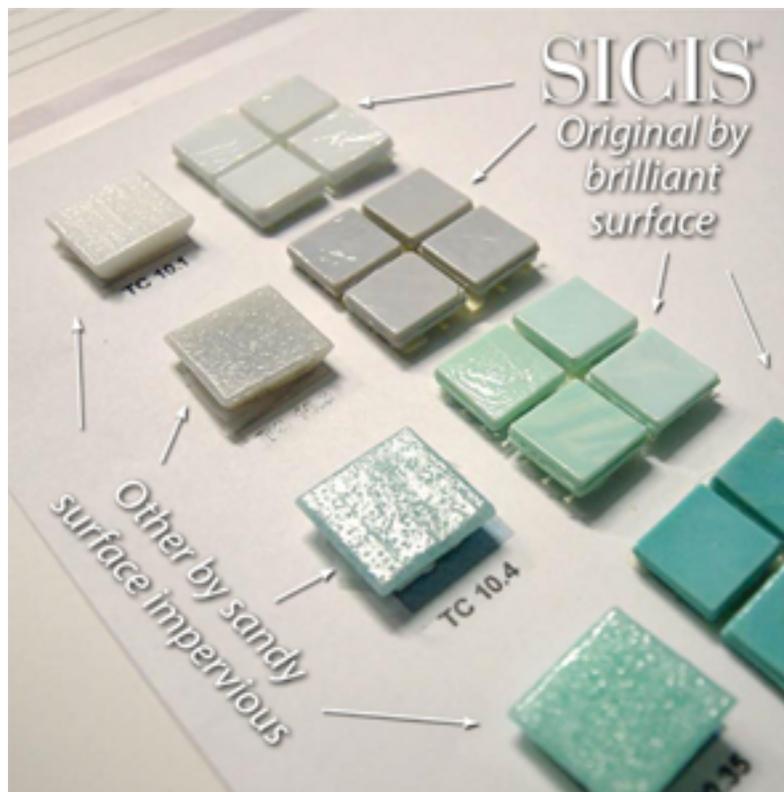
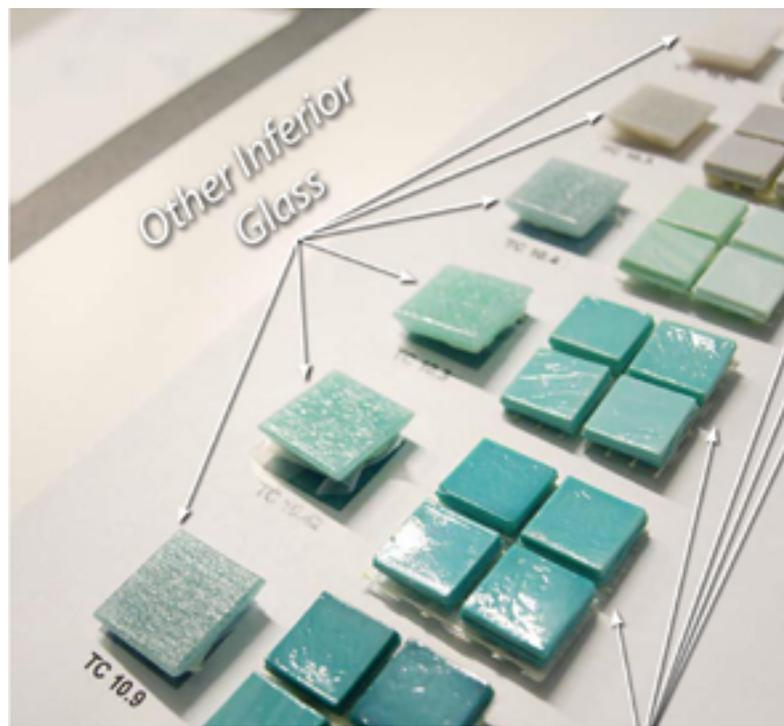
SICIS®

Original smalto

Compared to lower quality glass mosaics

SICIS mosaic, compared to lower quality glass mosaics, has:

- smaller tesserae
- smoother and brighter surface
- fuller colors
- greater resistance



Fake SICIS

SICIS®

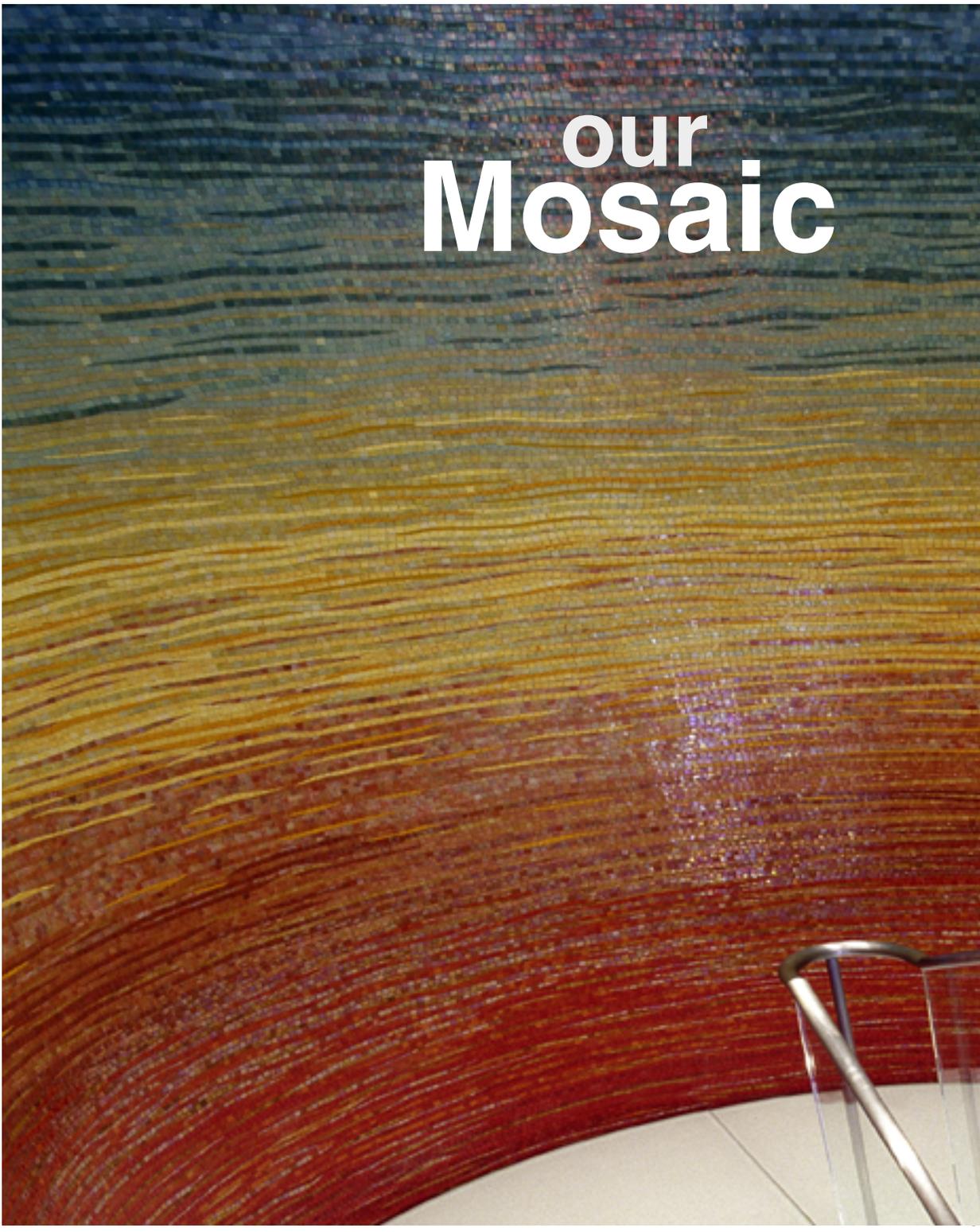
The material

More than **400 possible colors** are forged from the Ravenna production department thanks to the quantity and quality of these minerals.

The essence of pure matter, the naturalness of the process often creates influences even on the precise shade of a color, generating different shades of the same color, due to climate, temperature, and other environmental factors.

The company has also developed new methodologies for creating the mosaic in marble, stones and metals from the most precious ones, such as gold, platinum, silver and other metals, such as steel, tesserae with traditional and unusual shapes.

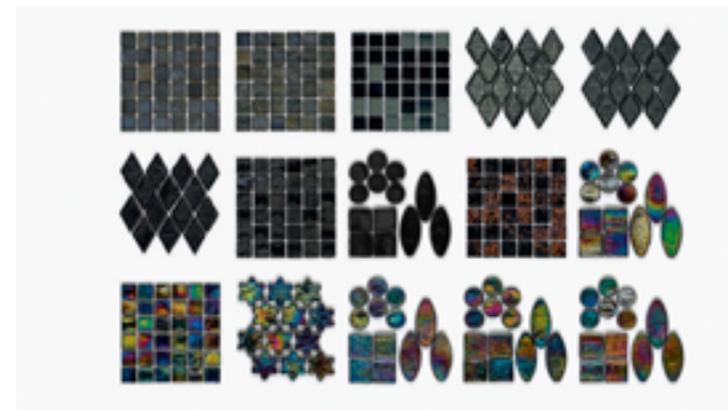
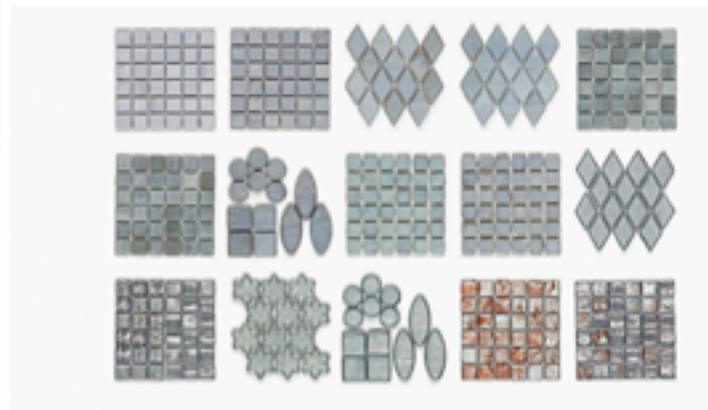
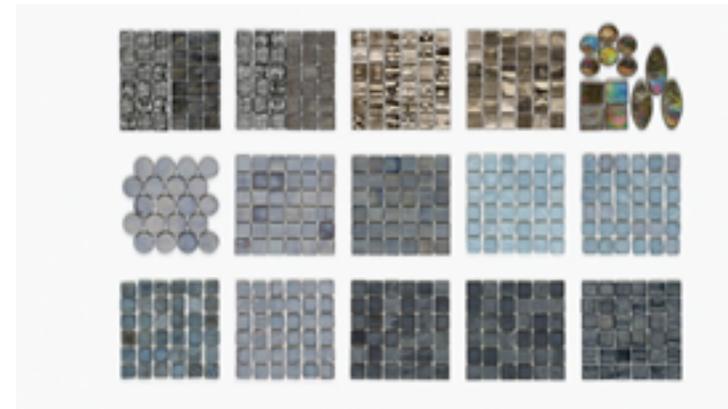
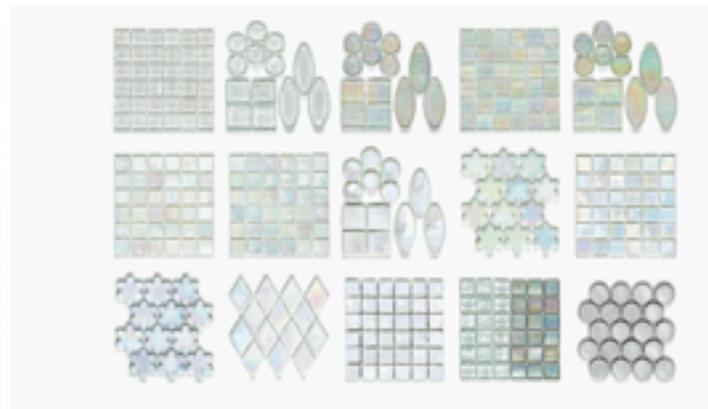
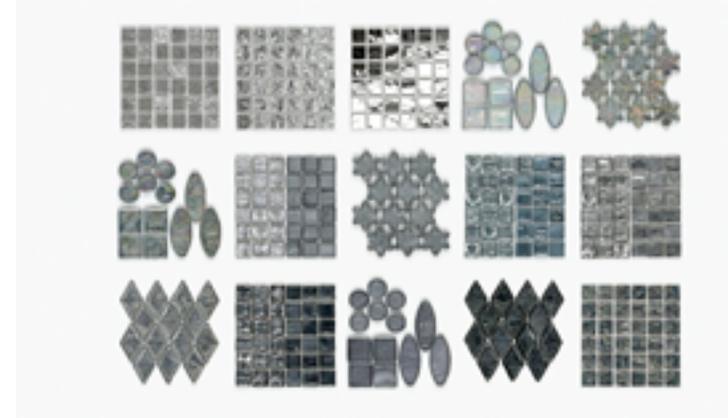
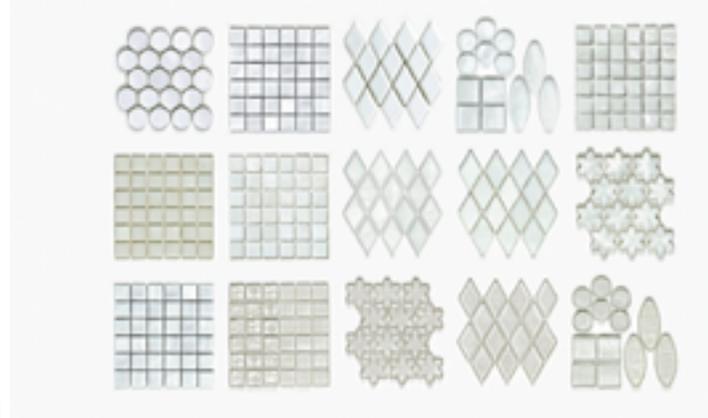
These mosaics will be told and explained in separate communications.



our
Mosaic

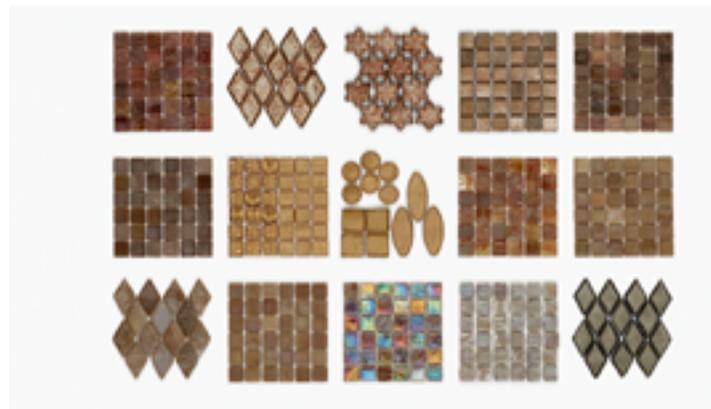
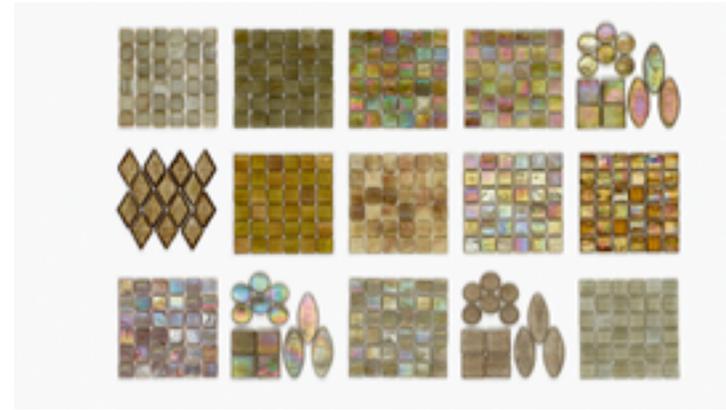
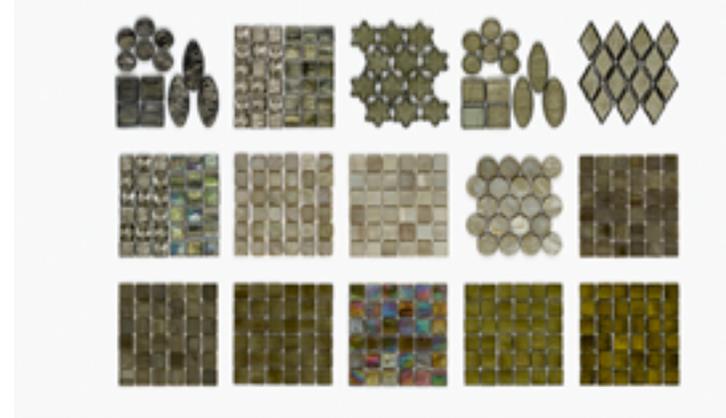
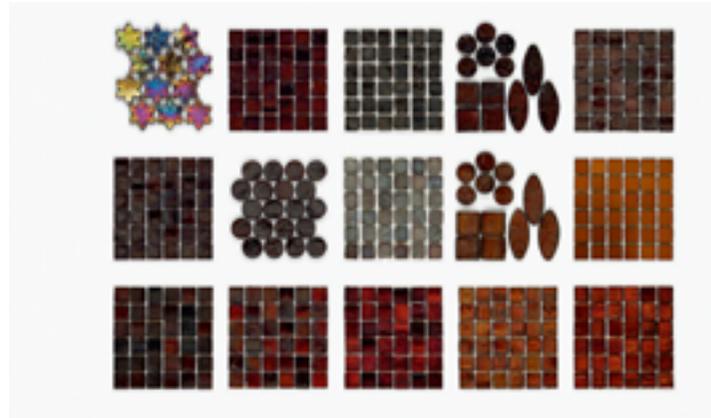
SICIS® Colors

Neutral tones: from glacial whites to the darker blacks.



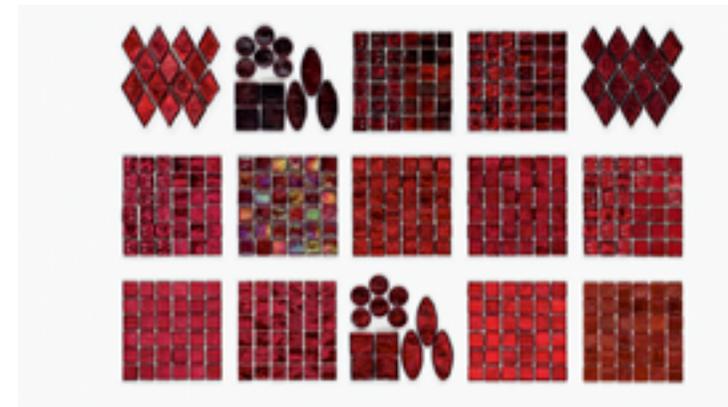
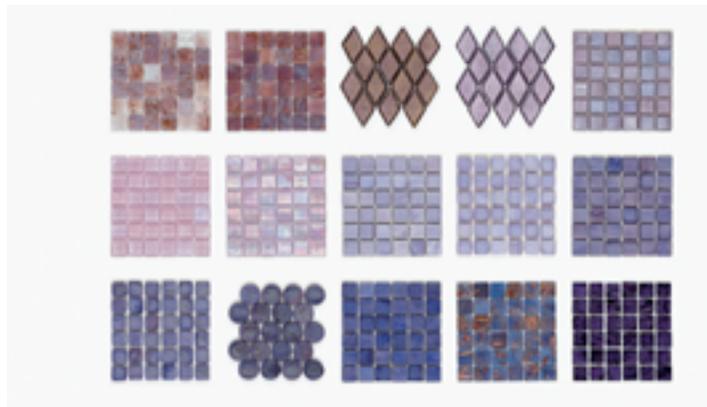
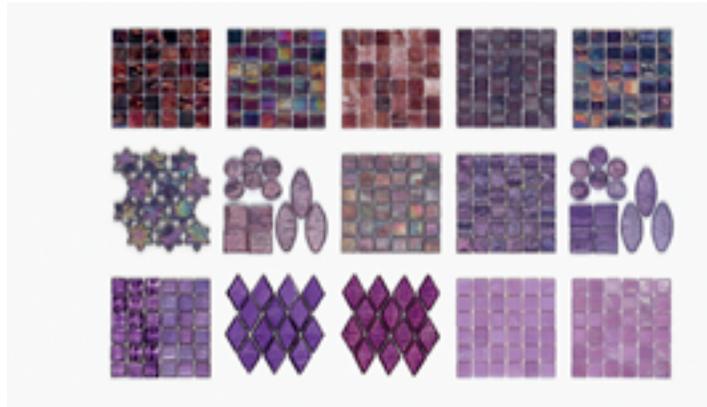
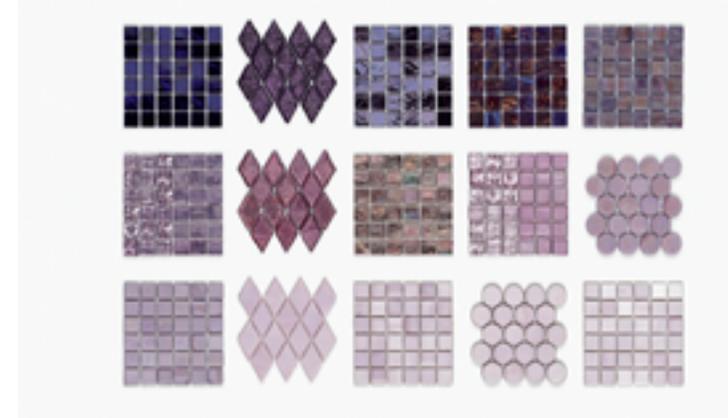
SICIS® Colors

Warm earth tones: brown, bronze, beige and copper.



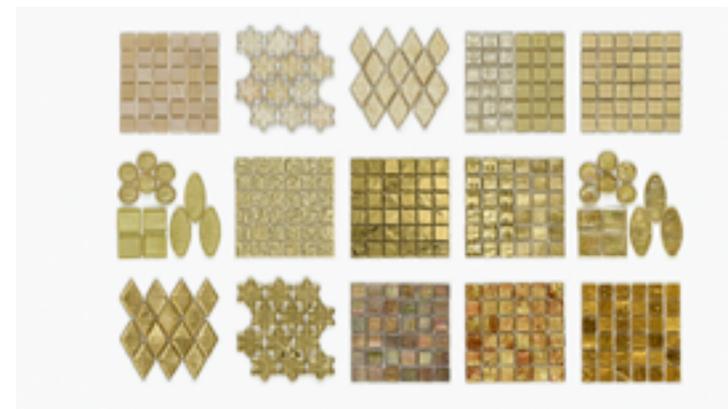
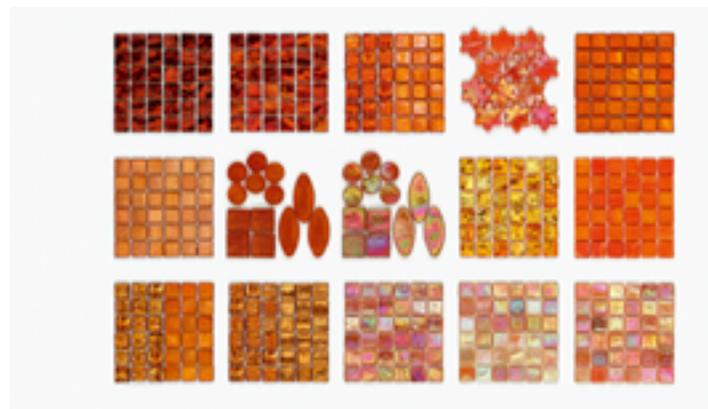
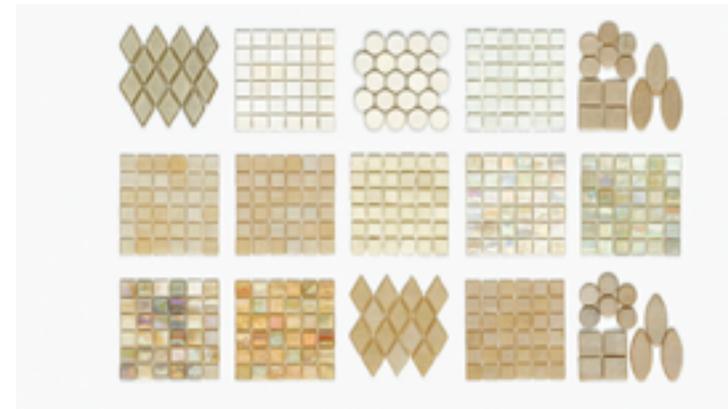
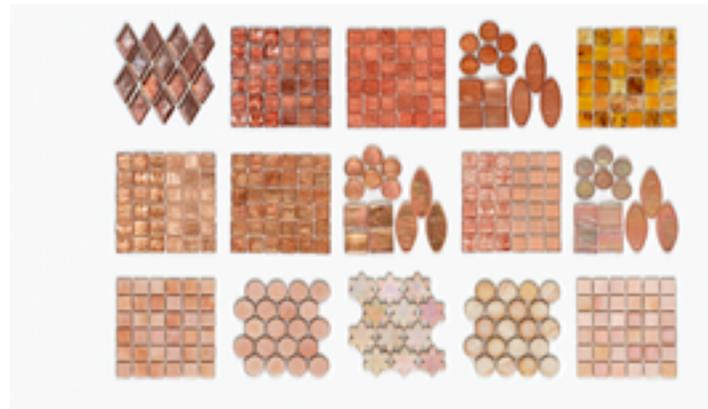
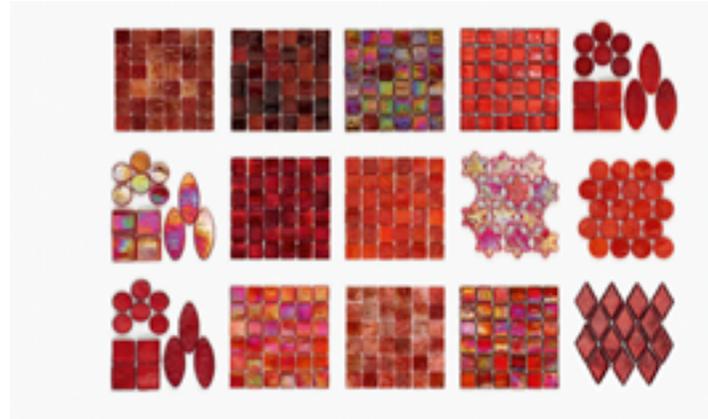
SICIS® Colors

From lilium rose up to intense violet, light up like silks and fine velvets.



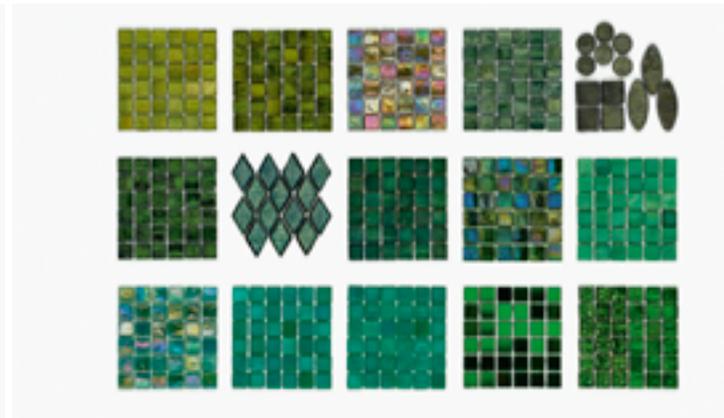
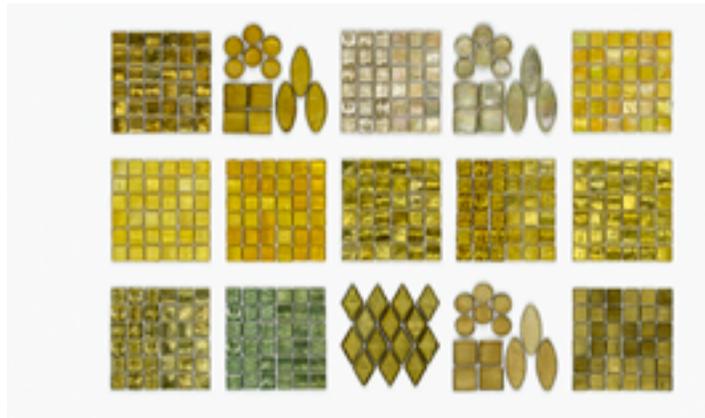
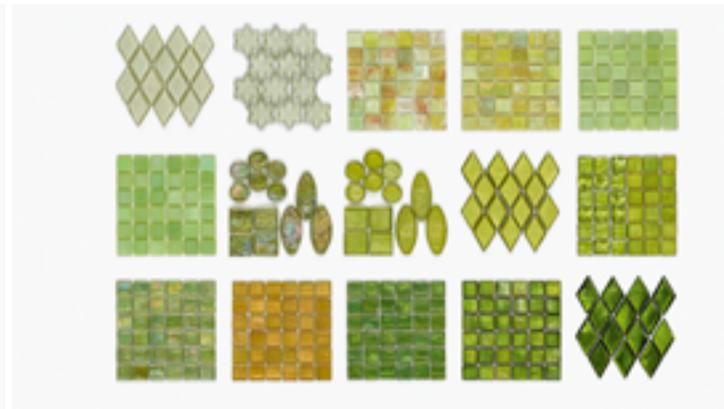
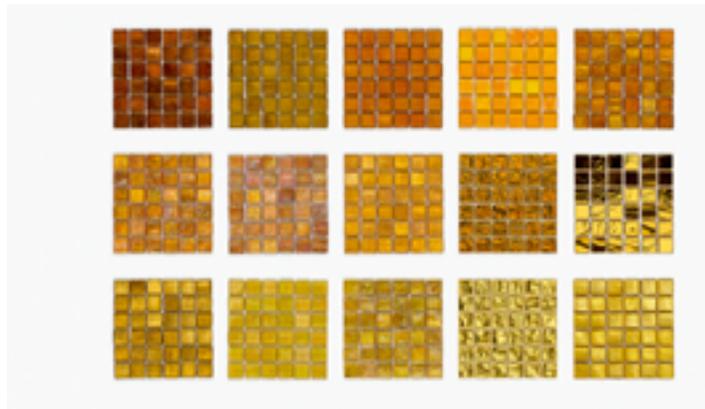
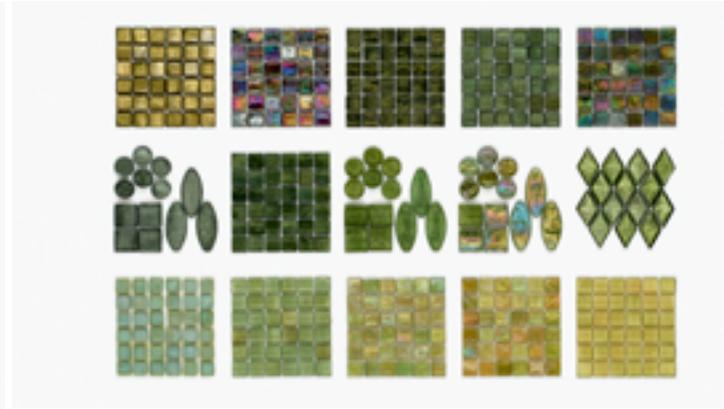
SICIS® Colors

Bright reds fade to orange hues and reach gold tones.



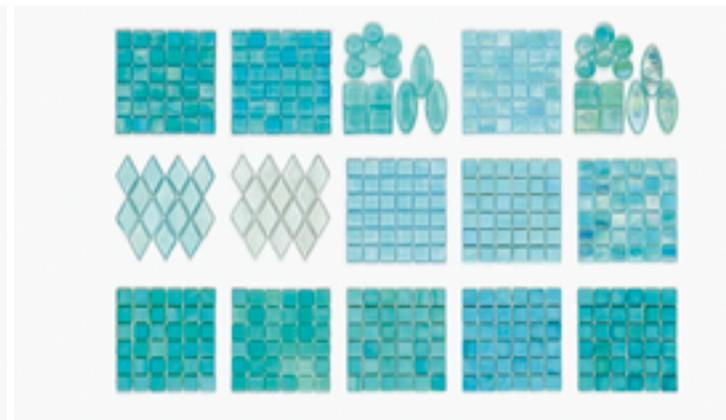
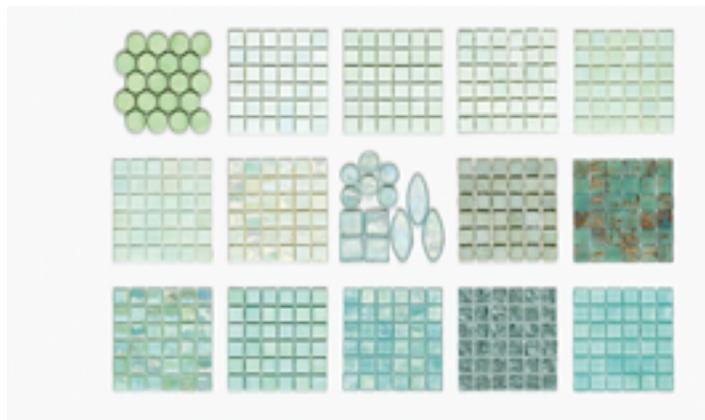
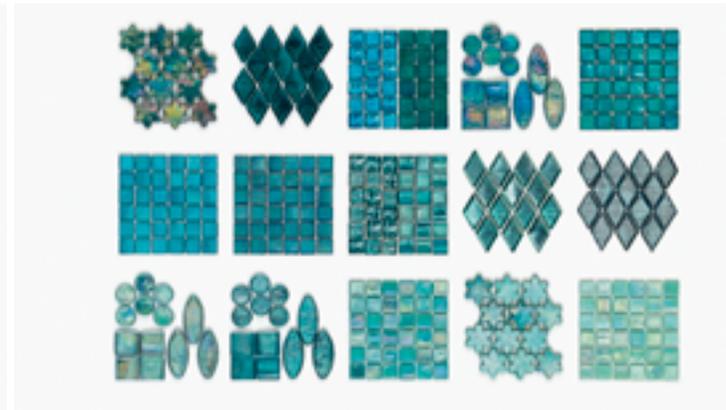
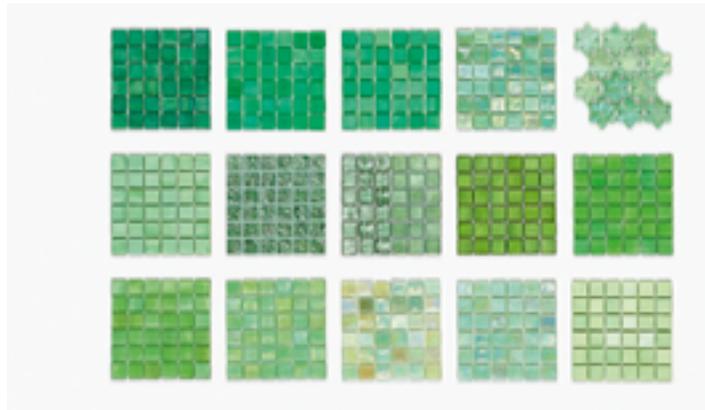
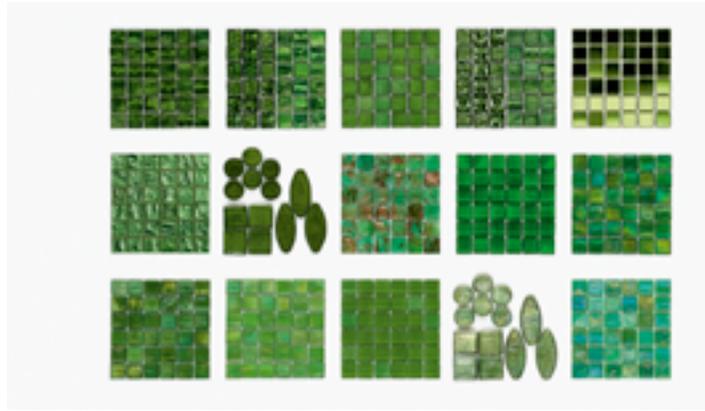
SICIS® Colors

Intense yellows like sunbeams, fade to soft tones and start again towards emerald greens.



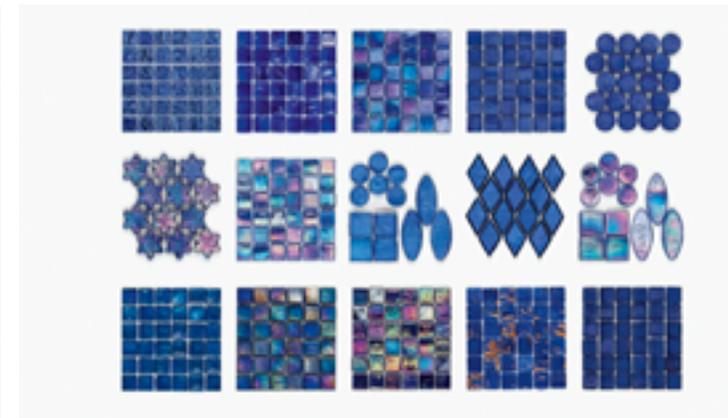
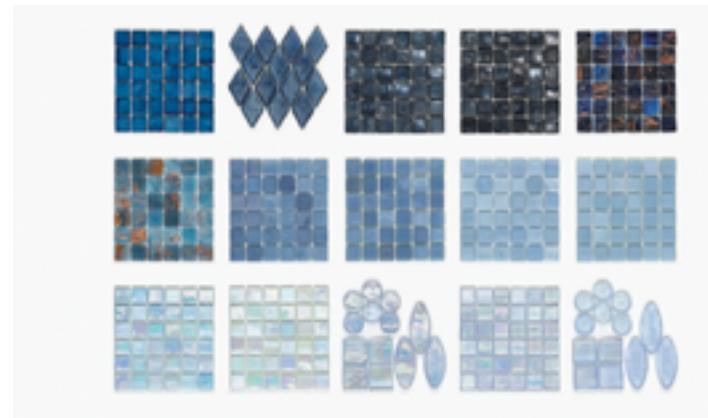
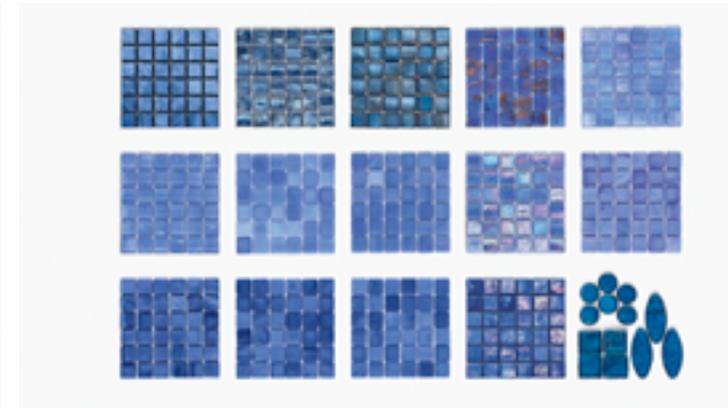
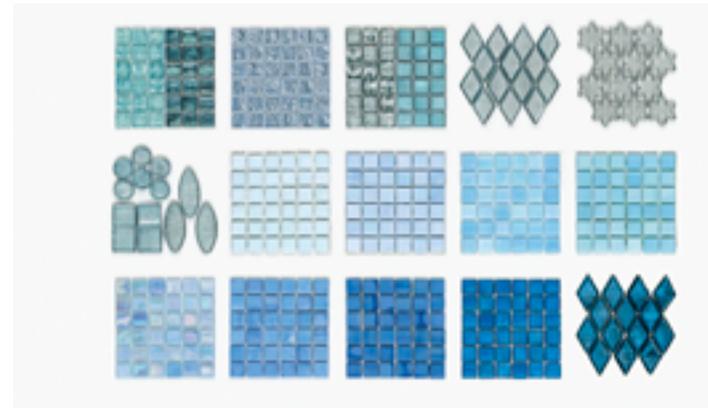
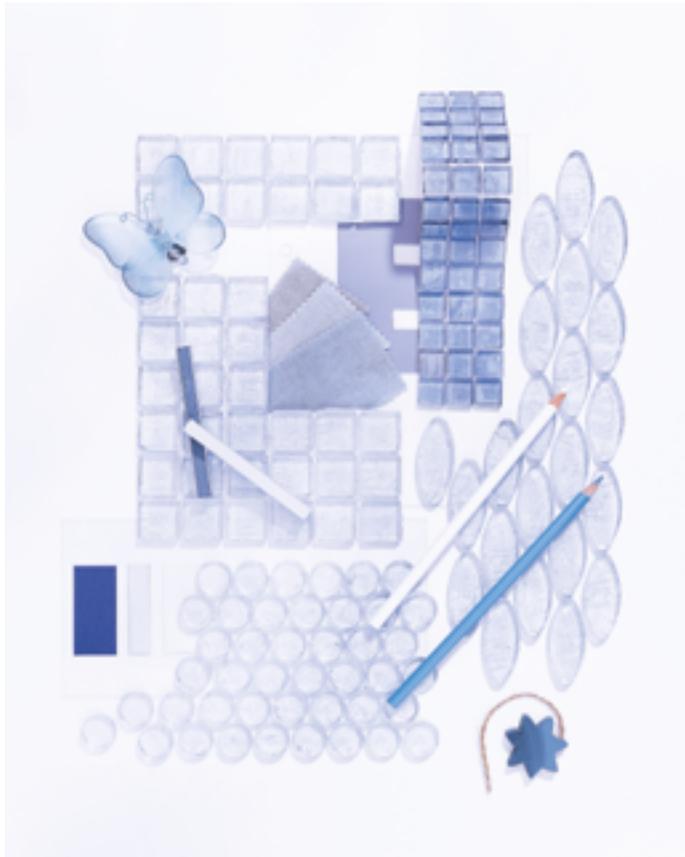
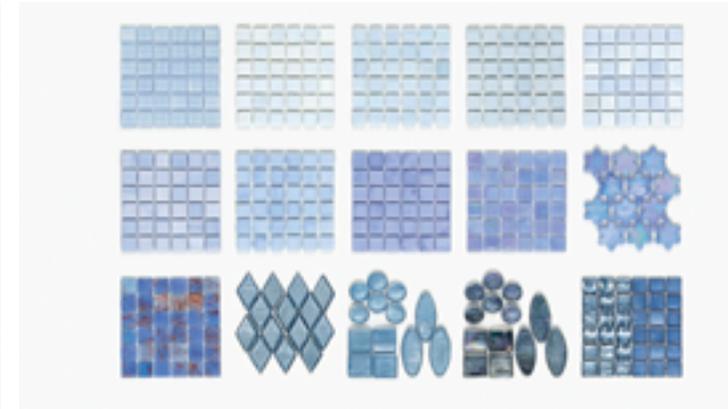
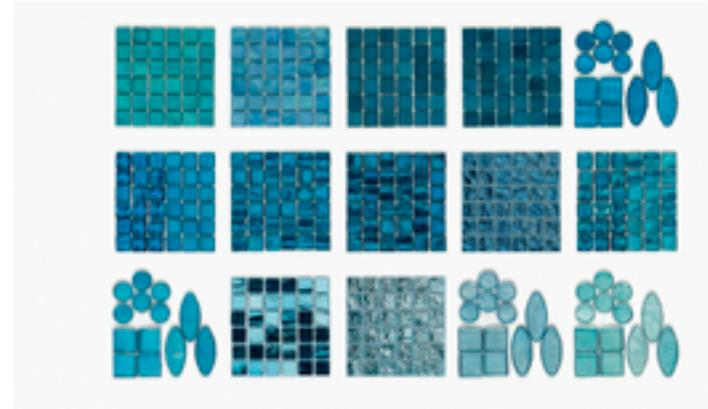
SICIS® Colors

The colors of nature par excellence, green in all its shades.



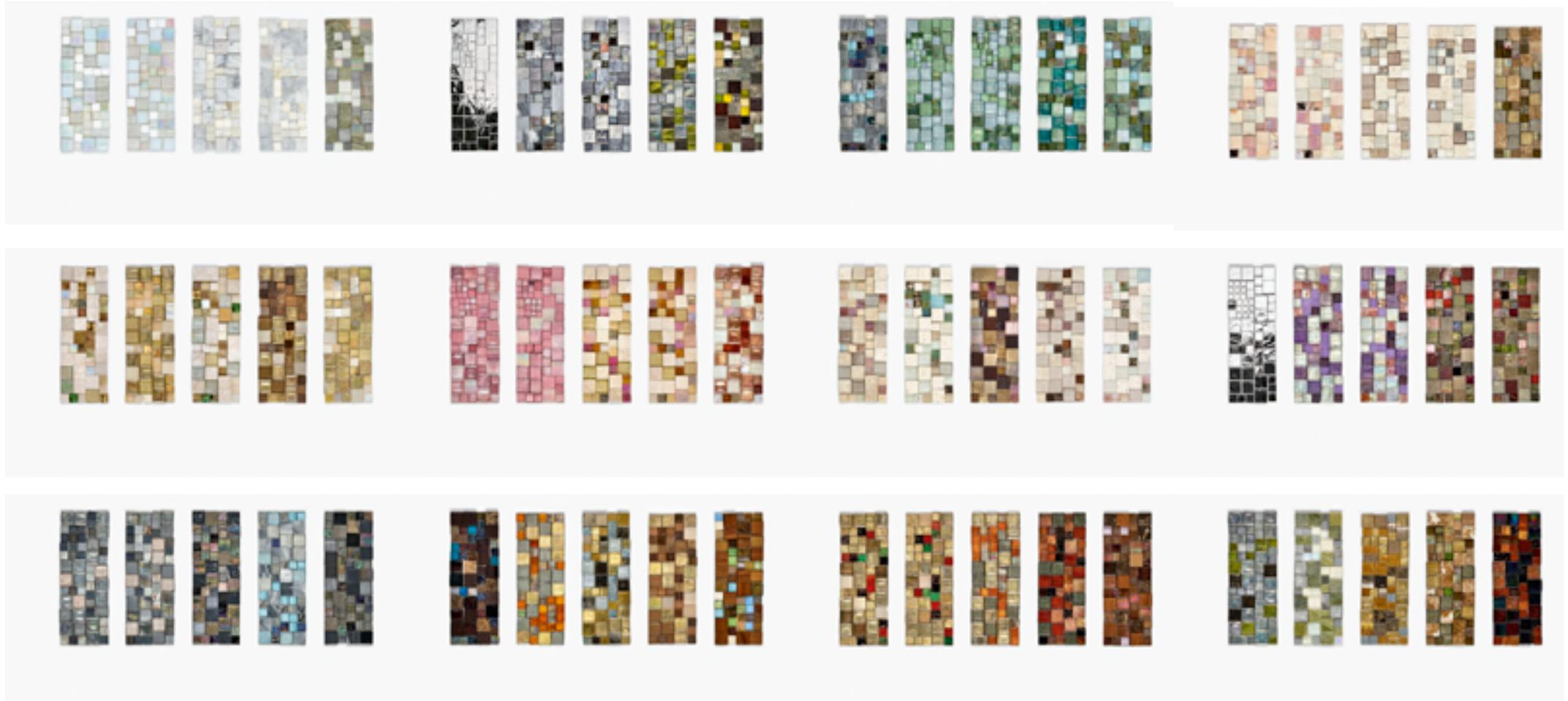
SICIS® Colors

The transparency of the sky, the clouds, down to the deep sea. You get lost in a journey made of air and water.



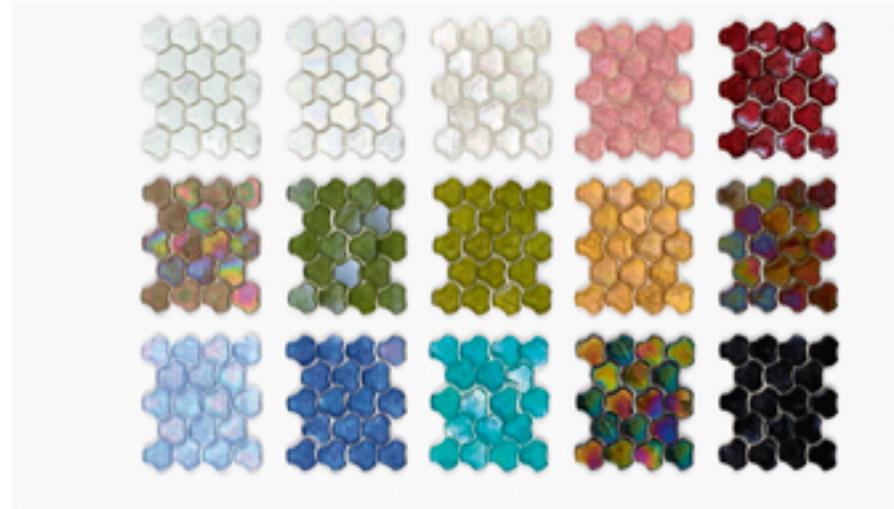
SICIS® Colors

The boards of three-dimensional tiles.



SICIS® Colors

Many colors for unique and inimitable formats.



8 Shapes / 8 Formats

SICIS®



SQUARE
QUADRATO

mm 15 x 15 - (5/8" x 5/8")
mm 10 x 10 - (3/8" x 3/8")
mm 20 x 20 - (3/4" x 3/4")
mm 23 x 23 - (7/8" x 7/8")



ROUND
TONDO

Diam. mm 20
(Diam. 6/8")



IRREGULAR
IRREGOLARE

mm 15 x 15
(5/8" x 5/8")



OVAL
OVALE

mm 51,5 x 21
(2' x 7/8")



LOZENGE
LOSANGA

mm 31 x 15
(1 1/4" x 5/8")



FLOWER
FIORE

Diam. MAX mm. 30
(Diam. MAX 1 1/8")



ROMBOIDAL
ROMBO

mm 23 x 40
(7/8" x 1 5/8")



CLOVER
TRIFOGLIO

Diam MAX mm. 25
(Diam. MAX 1")



16 Finishings



SOLID
SOLIDO



BRILLIANT
BRILLANTE



ANCIENT
ANTICO



TRANSPARENT
TRASPARENTE



SATIN
SATINATO



METALLIC
METALLICO



TIDE
TEXTURIZZATO



SEVERAL THICKNESS FOR COMMERCIAL USE
SPESSORATO PER USO COMMERCIALE



BUSH HAMMERED
BOCCIARDATO



TRIDIMENSIONAL
TRIDIMENSIONALE



QUARTZ AVENTURINE
AVVENTURINA QUARZO



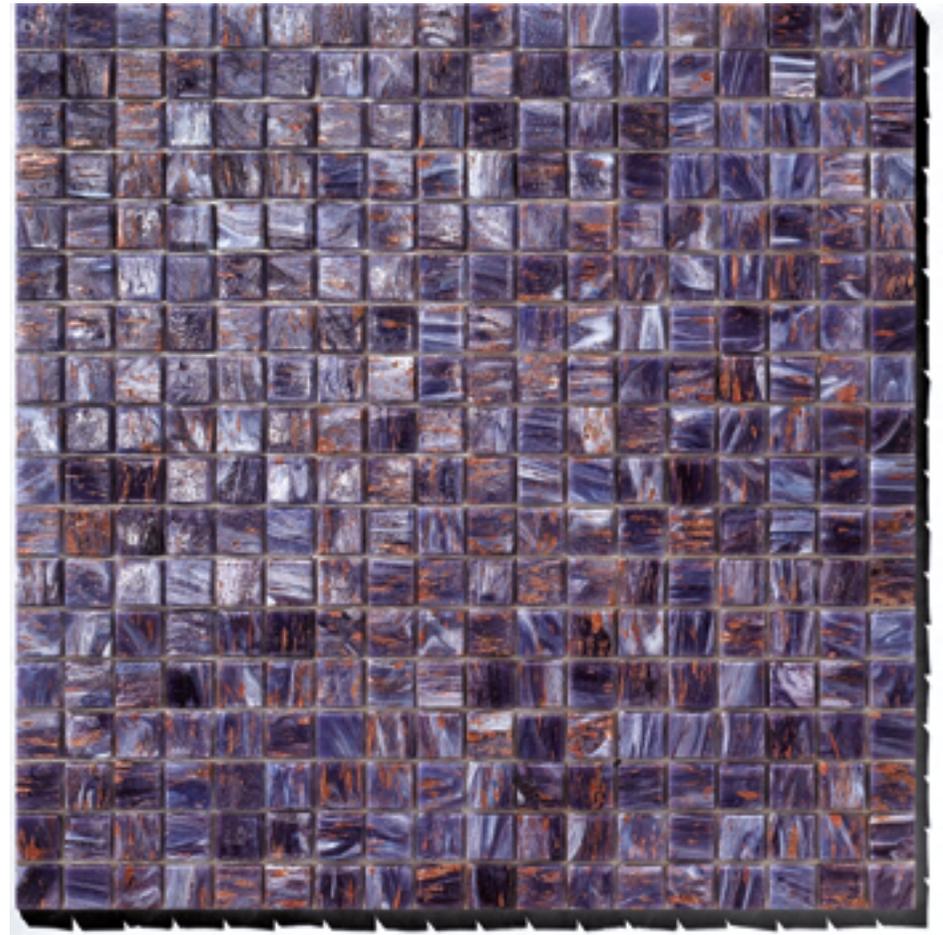
IRIDESCENT
IRIDESCENTE



WOOD
LEGNO

Quartz aventurine

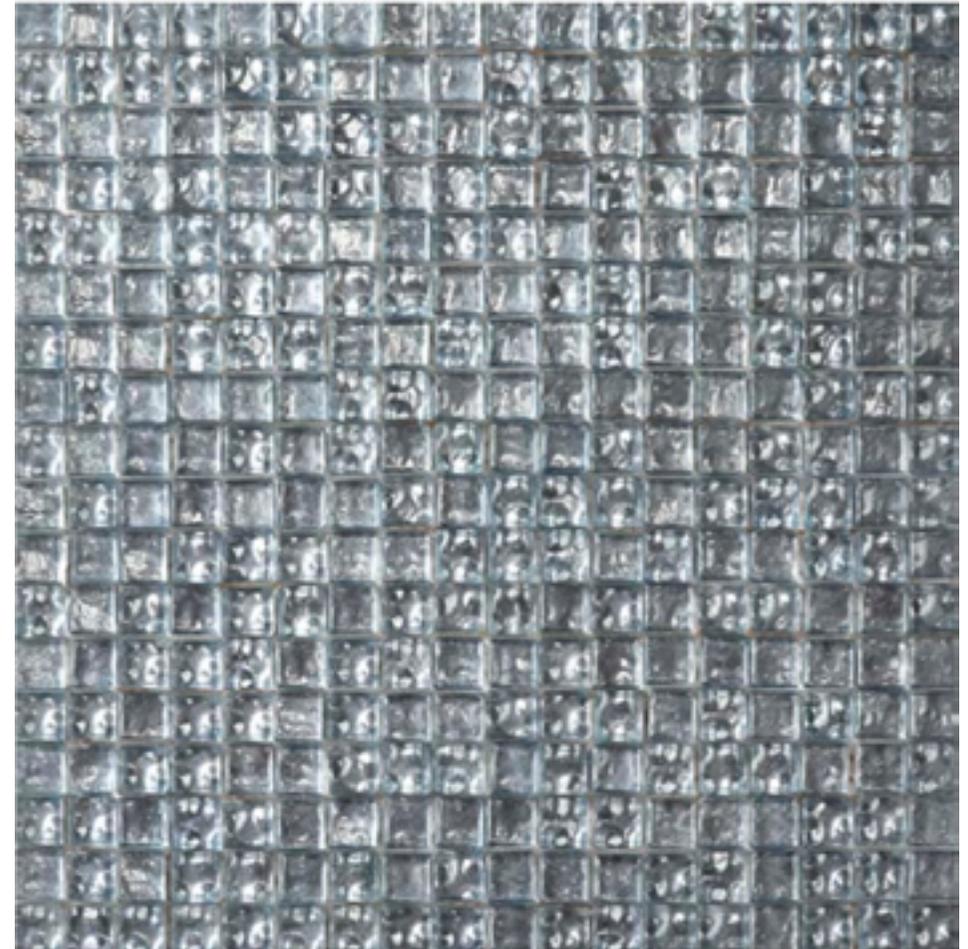
The glares given by quartz.



Firefly - Mauritius
sheet size **29,6x29,6cm**

Tide finish

Tesserae with a soft wavy surface.



Colibrì - Yannal Tide
sheet size **29,6x29,6cm**

Ancient finish

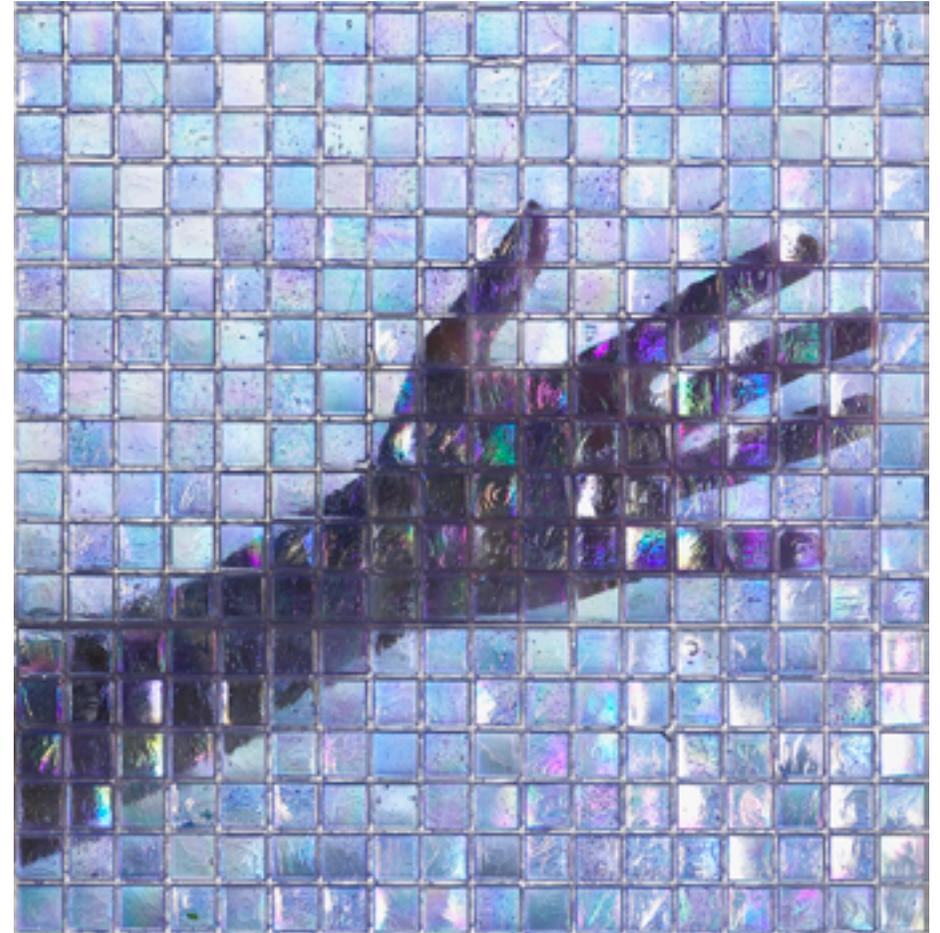
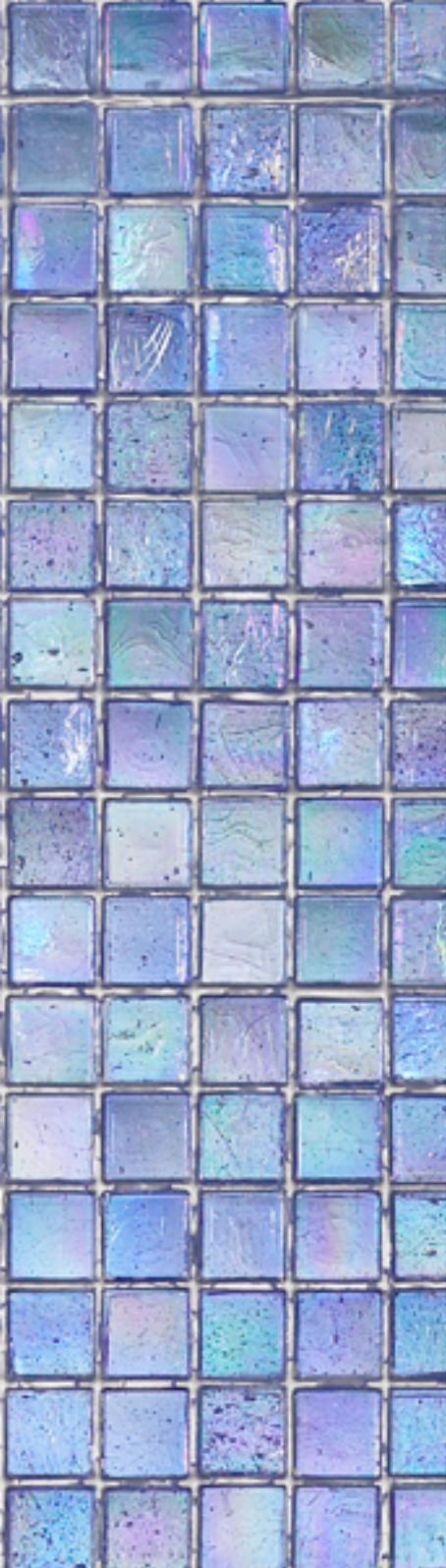
Uneven surfaces and edges, as per ancient traditions.



Antigua - Roma
sheet size **29,5x29,5cm**

Transparent finish

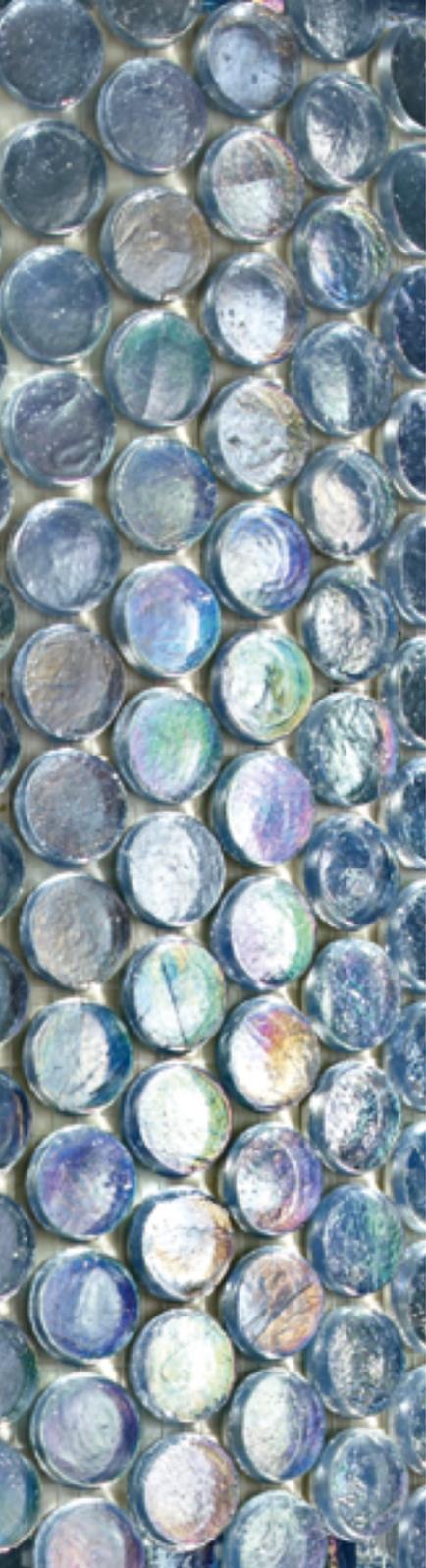
Semi-transparent tiles to allow imaginative play of light.



Glimmer - Persimmon
sheet size 29,5x29,5

Metallic effect

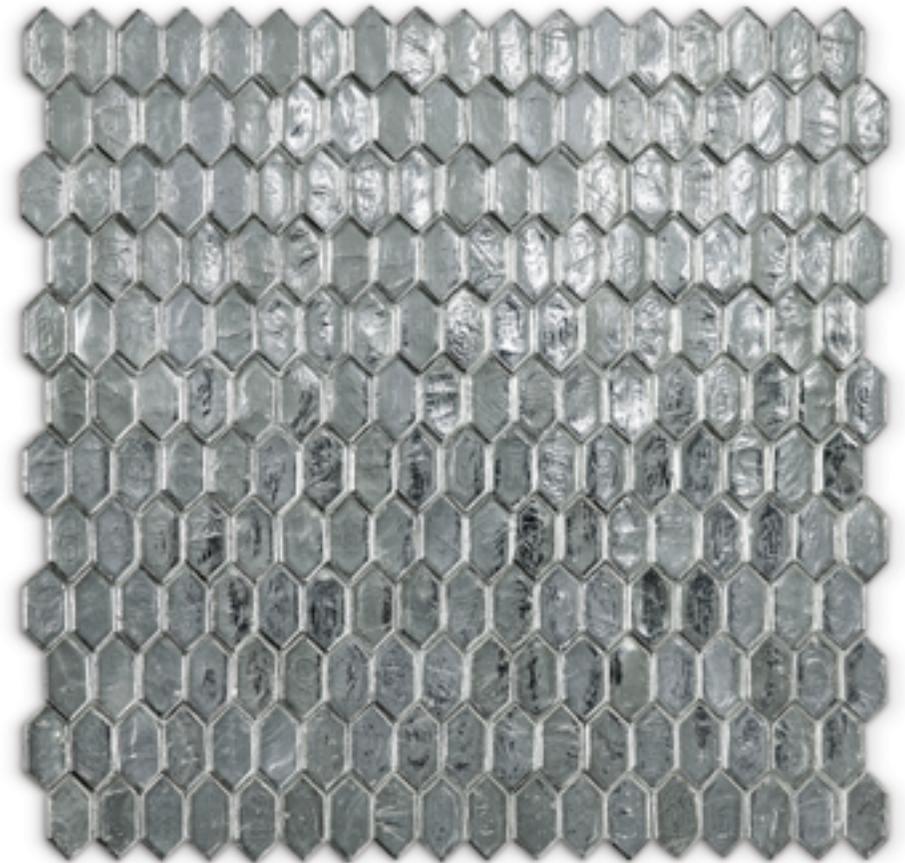
Shining and iridescent metallic reflections.



Neoglass - Barrels 521S
sheet size 29,4x27,6cm

Brilliant finish

Finishes with a shiny effect.

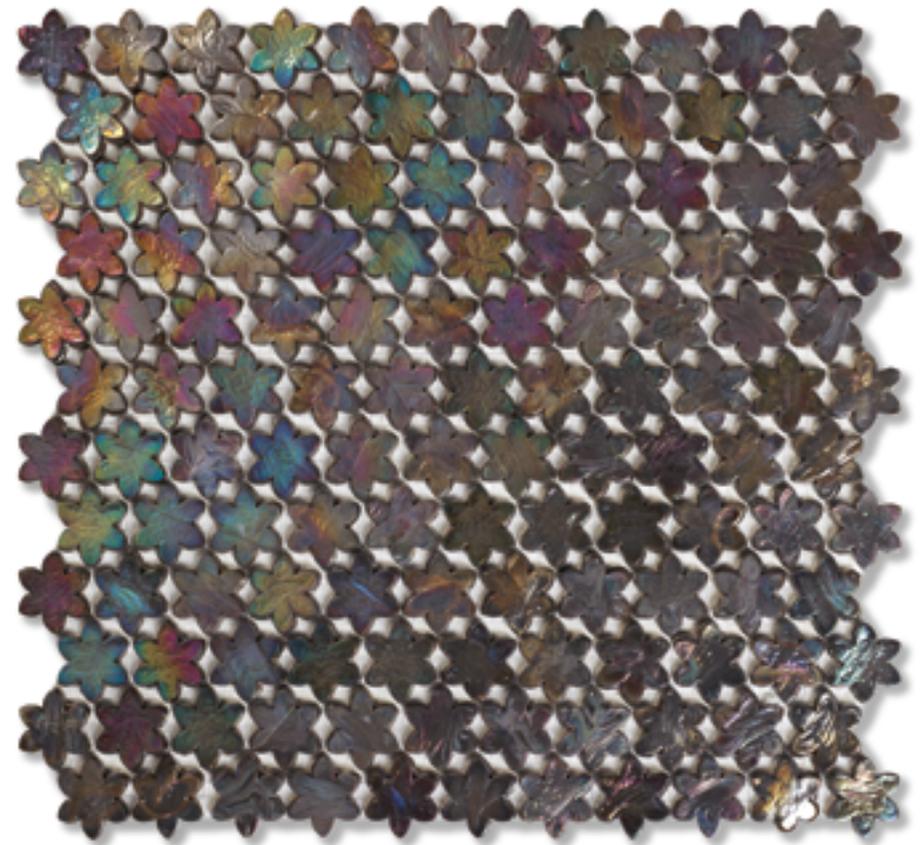
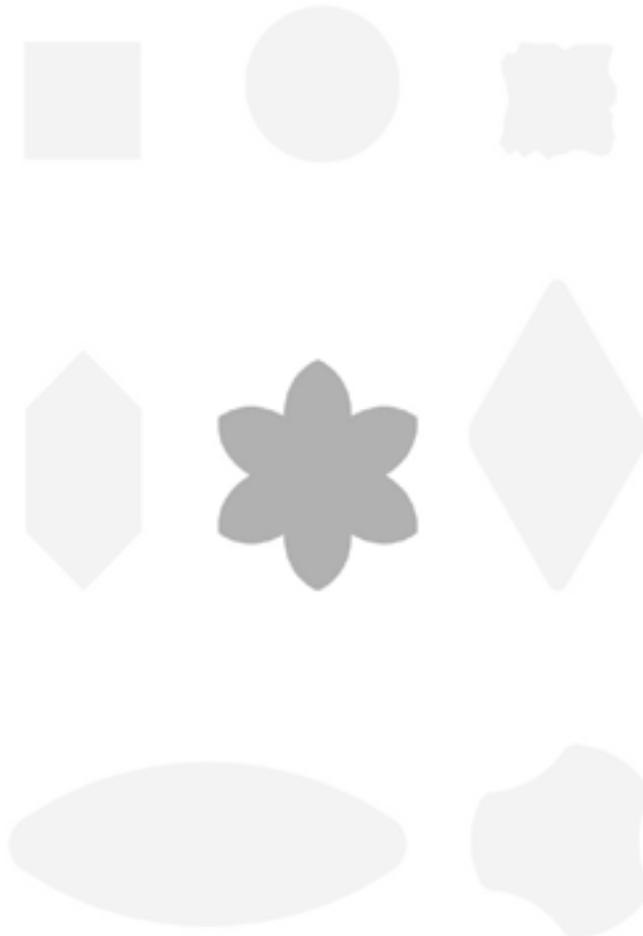


Crystal - Galena

Item 1, sheet size 30,4x30cm

Iridescent effect

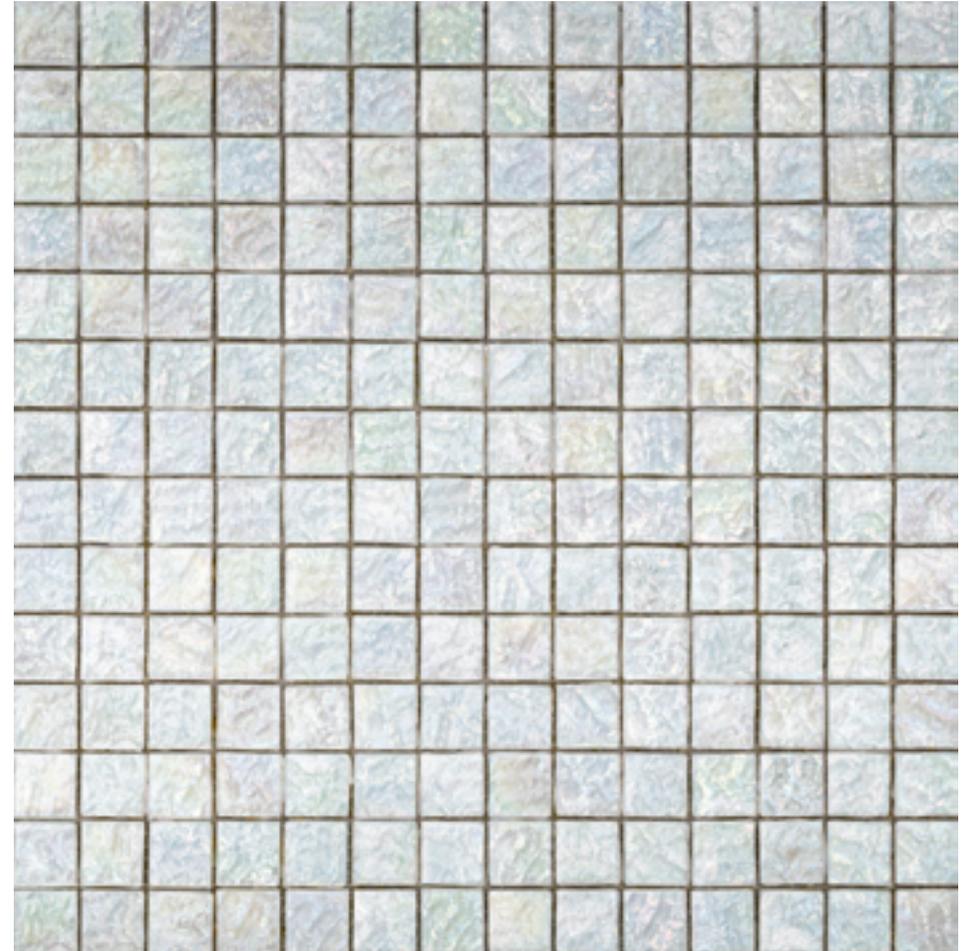
Iridescent and pearly details.



Petites Fleurs Magnolia
sheet size 31,6x29,3cm

Bush hammered finish

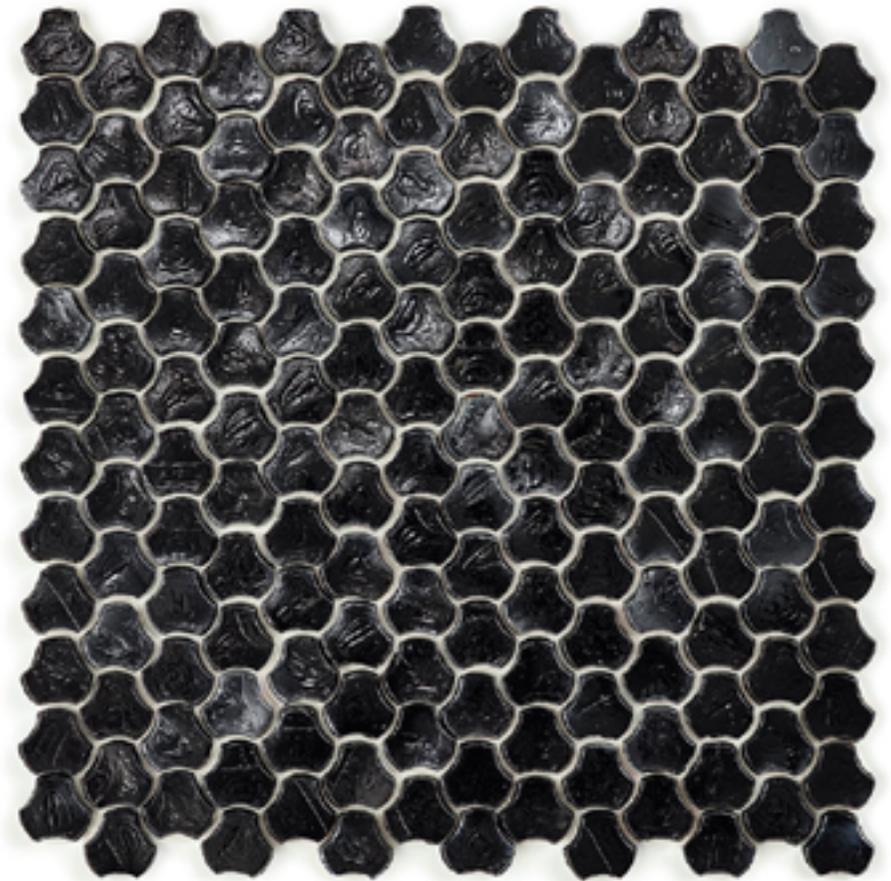
Uneven and corrugated surface.



Tephra - Anorth
sheet size **29,6x29,6cm**

Solid finish

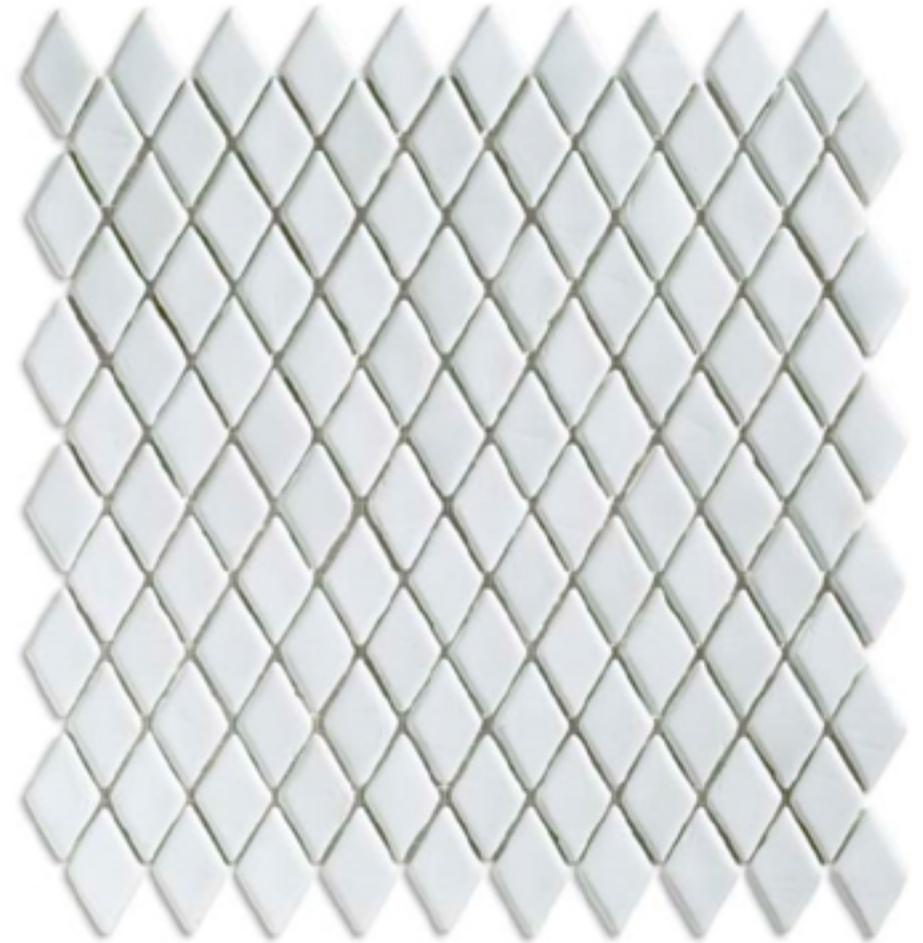
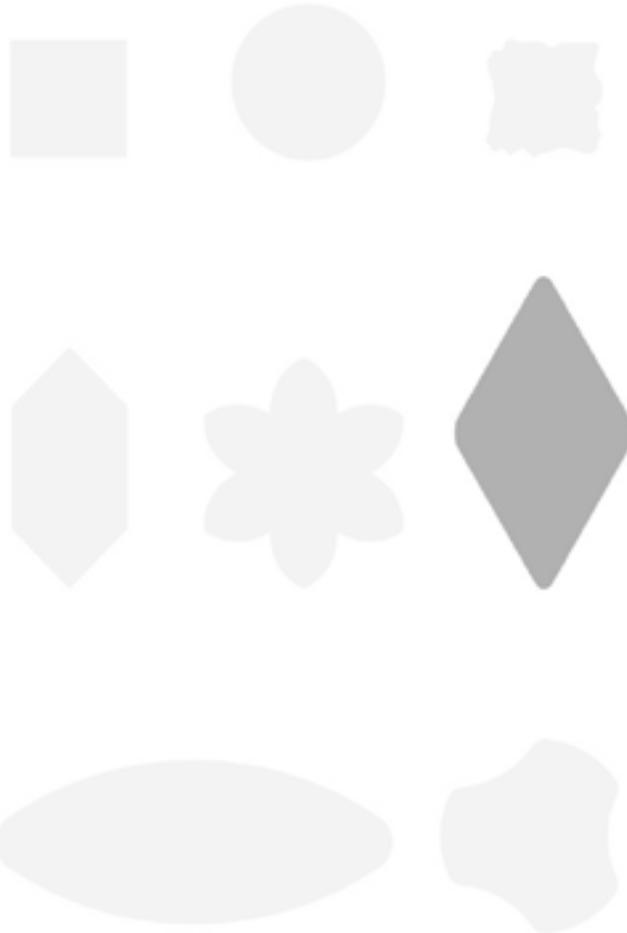
Full, solid, pure colors.



Clover - Blackened
sheet size 28,6x28,3cm

Satin finish

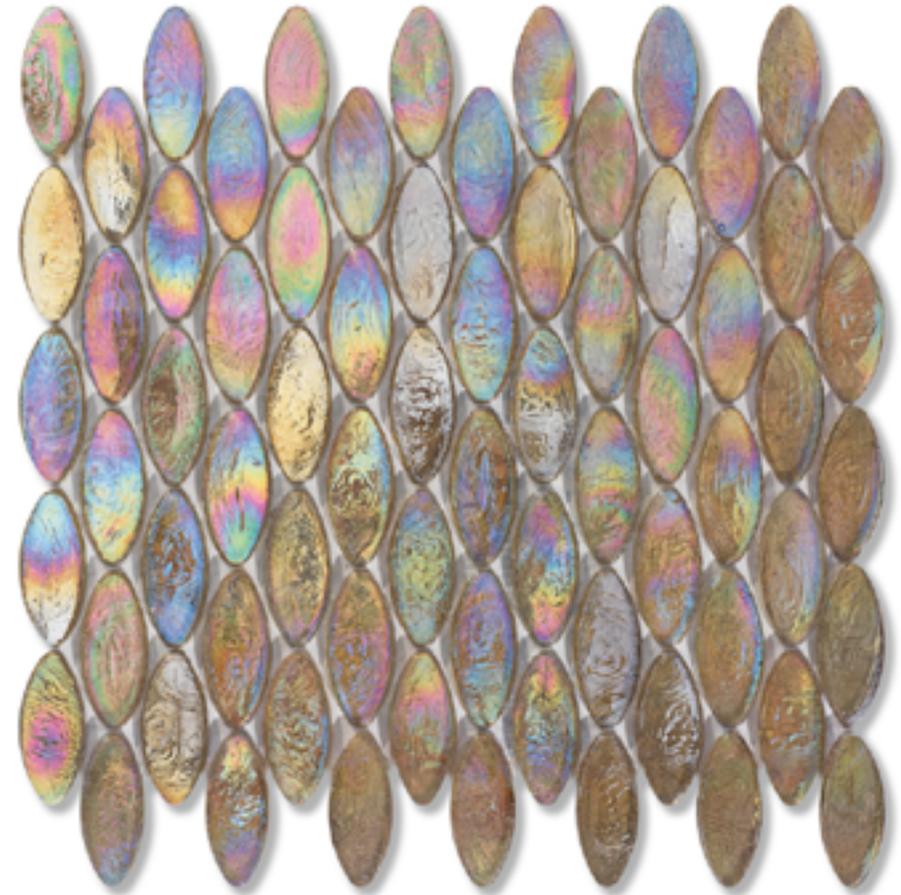
Matte and regular finishes.



Diamond - Excelsior Satin
Item 02 sheet size 25,9x26,6cm

Several thickness

Many different thicknesses for commercial use.



Neoglass - 210,5 Satin Domes
sheet size 25,9x25,3cm

Wood finish

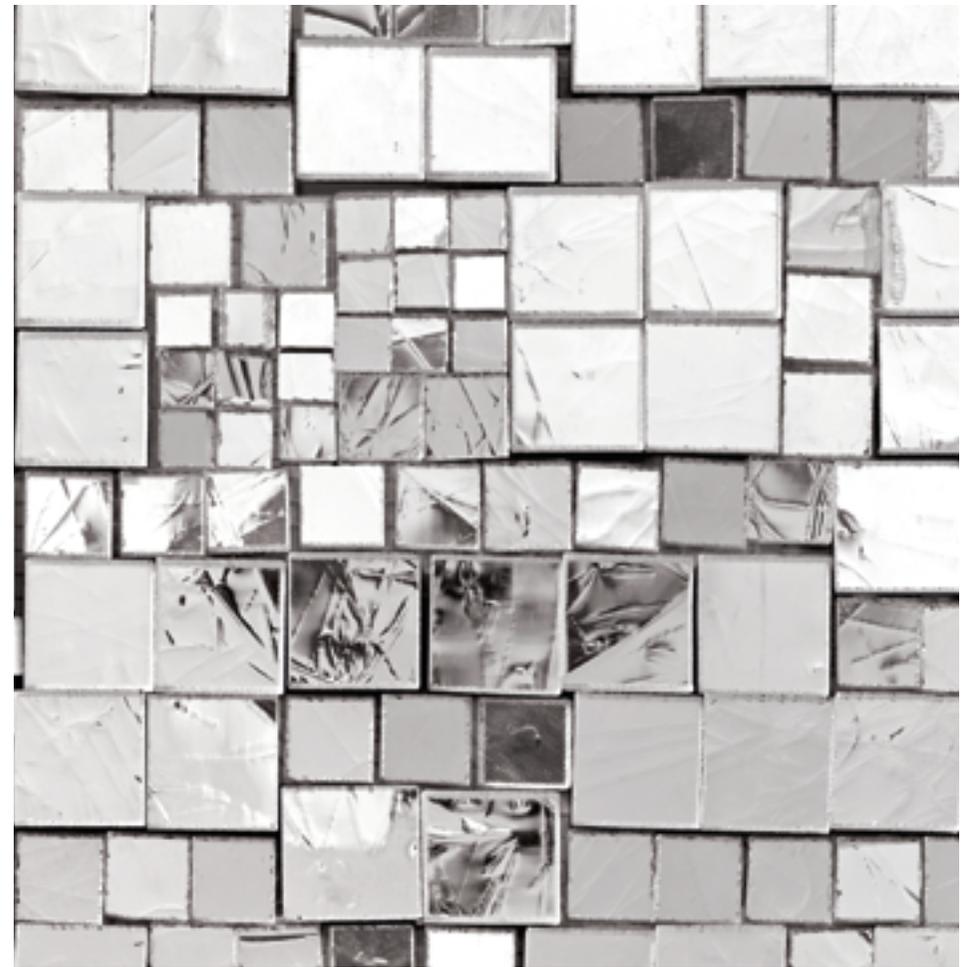
Wooden tesserae.



Structura - Sunstone Uneven
Sheet size 25,4x28,4cm

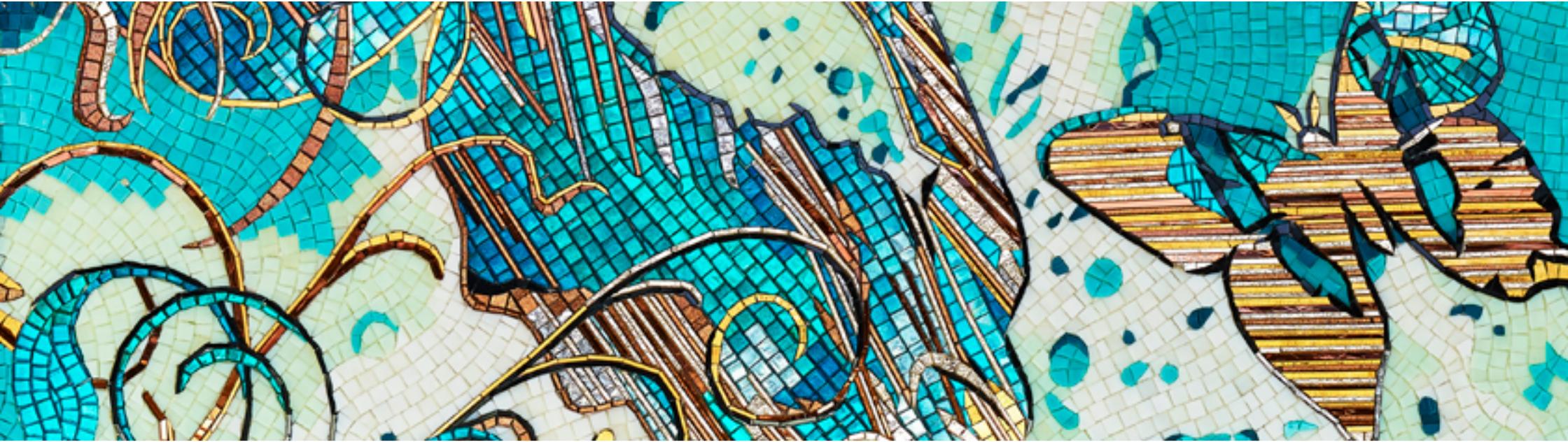
Tridimensional

Tesserae with different thicknesses and sizes.



Structura

Sheet size 25,4x28,4cm

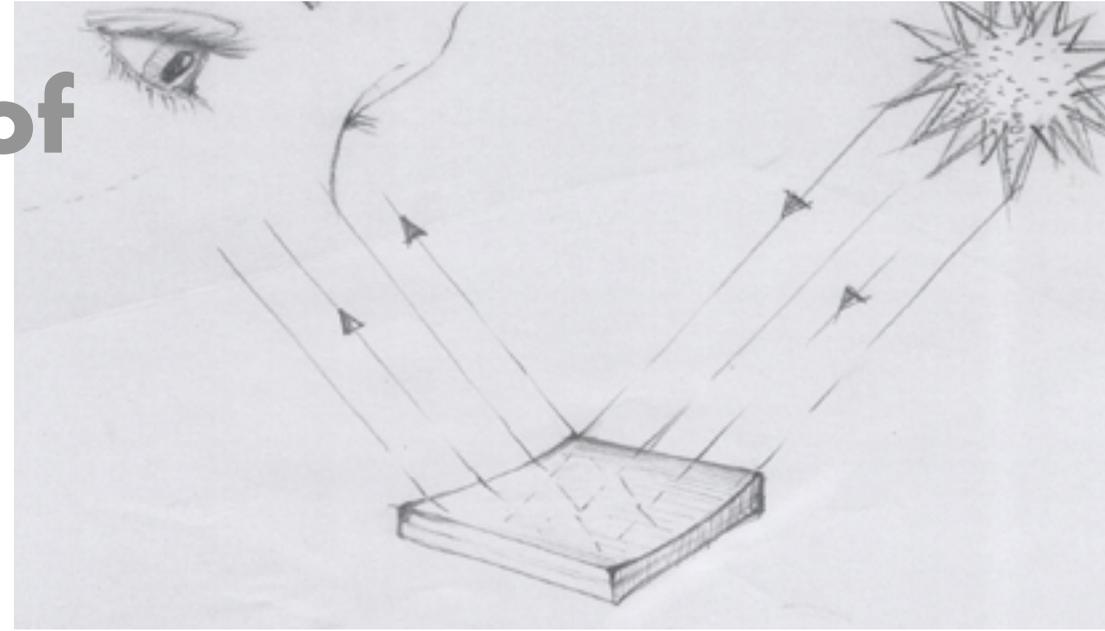


1. Reflection of light

SICIS Murano glass mosaic, thanks to the refined irregularity of the tesserae, concave or convex, it reflects the light not uniformly, thus giving the surface of the mosaic illuminated by the light an iridescent and dynamic appearance. This effect is enhanced with both sunlight and artificial light and is relevant both indoors and outdoors.

**Three characteristics of
SICIS mosaic
depending
on light**

Three characteristics of SICIS mosaic depending on light



2. Reflectance

understood as the Solar reflectance index (RSI), since there are different interpretations for reflectance according to the regulatory framework.

Relevant only externally as it is a property that simulates the behaviour of a surface when exposed to sunlight only. A building material with a high reflection index laid outdoors allows to reduce the “heat island” effect.

This is also relevant as it allows to obtain points under the LEED protocol or other environmental sustainability standards. Now, thanks to the fact that the surface of the laid mosaic is composed for approx. 25% of grout, it is also possible for dark colored mosaics (which normally would have a low RSI solar reflection index) to counterbalance with grouts that have a high index and obtain a relatively high result for a dark colored surface.

Three characteristics of SICIS mosaic depending on light

3. Photocatalysis

Relevant for outdoors; also relevant for indoors when the mosaic laid indoors is sufficiently exposed to sunlight.

Some glass mosaic collections contain titanium dioxide in the anatase form, recognizable by the presence of iridescence. This makes the mosaic:

- self-cleaning / anti-pollutant (sunlight reacts by transforming air pollutants into soluble salts and water, acting as a solvent, eliminates them by facilitating surface cleaning)
- antibacterial (the oxidizing power of the radicals produced in the photocatalytic reaction inhibits the proliferation of bacteria and mold)

SICIS Sustainability Biophilia

SICIS®



The term “**biophilia**” literally means “love of life and living systems”. It was first used by Erich Fromm (c. 1965) to describe a psychological orientation of attraction from all that is alive and vital.

The biophilia hypothesis suggests that there is an instinctive link between humans and other living organisms.

Edward O. Wilson introduced and popularized the hypothesis in his book entitled *Biophilia* (1984): “the connections that human beings subconsciously seek with the rest of living beings”.

Unlike phobias, which are aversions and fears that people have towards things in the natural world, philie are the positive attractions and feelings that people have towards certain habits, activities and objects in their natural environment.

SICIS Sustainability Biophilia

CENTRO CERAMICO - BOLOGNA

Test report N. 434/10/S1 **Date** 29/09/2010 **Page** 2 of 3

Description of the sample:

Glass mosaic tile made of 9 tesserae in 3 different colors, marked "Blend Collection Caprifoglio".
The tesserae are layed with a white adhesive; this influences the "Argolan" reflectance value.

Manufacturer: SICIS S.r.l

Sampling details:

- Where: /
- Date: /
- By whom: customer
- How (methods): /

Date of receival in laboratory: 27/09/2010

1 - TESTS PERFORMED:

		Date of starting	Date of ending
<input checked="" type="checkbox"/>	LEED 2009 NC Rating System and reference guide (US-GBC)	28/09/2010	28/09/2010
	Determination of solar reflectance spectrum and of SRI (SS Credit 7.1 - SS Credit 7.2)		
<input checked="" type="checkbox"/>	ASTM E 1980-01	29/09/2010	29/09/2010
	Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low Sloped Opaque Surfaces		

CENTRO CERAMICO - BOLOGNA

Test report N. 434/10/S1 **Date** 29/09/2010 **Page** 3 of 3

ASTM E 1980-01 - Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low Sloped Opaque Surfaces

The measurement was performed with a spectrophotometer UV-Vis-NIR Jasco mod. V-670 with double beam and equipped with an integrating sphere attachment.
The spectrum values are processed with the Weighted Ordinates method in order to obtain the reflectance solar spectrum of the sample; the distribution of solar spectral irradiance standard (for Air mass 1.5) employed in this method was obtained by the data reported in the reference ASTM G173-03.

RESULTS:

Convective Coefficient (W m ⁻² K ⁻¹)	Mean Value of SRI
5 (low-wind conditions)	35
12 (medium-wind conditions)	35
30 (high-wind conditions)	35

Mean value of Solar Reflectance, α	31
Thermal Emissivity, ϵ (printout)	0.92

Prof. Eng. Giorgio Timellini
Director

SICIS Sustainability Biophilia



SICIS®

Photocatalytic activity of vitreous materials
Customer: SICIS - The Art Factory S.r.l.

CHEMISTRY DEPARTMENT

NATIONAL RESEARCH
COUNCIL



UNIVERSITY OF FERRARA

ISTITUTO PER LA SINTESI ORGANICA
E LA FOTOREATTIVITA'

Sezione di Ferrara

**TECHNICAL REPORT ON THE PHOTOCATALYTIC ACTIVITY
OF VITREOUS MATERIALS MANUFACTURED FROM
SICIS - THE ART FACTORY S.r.l.**

NO_x ABATEMENT

three different types of support

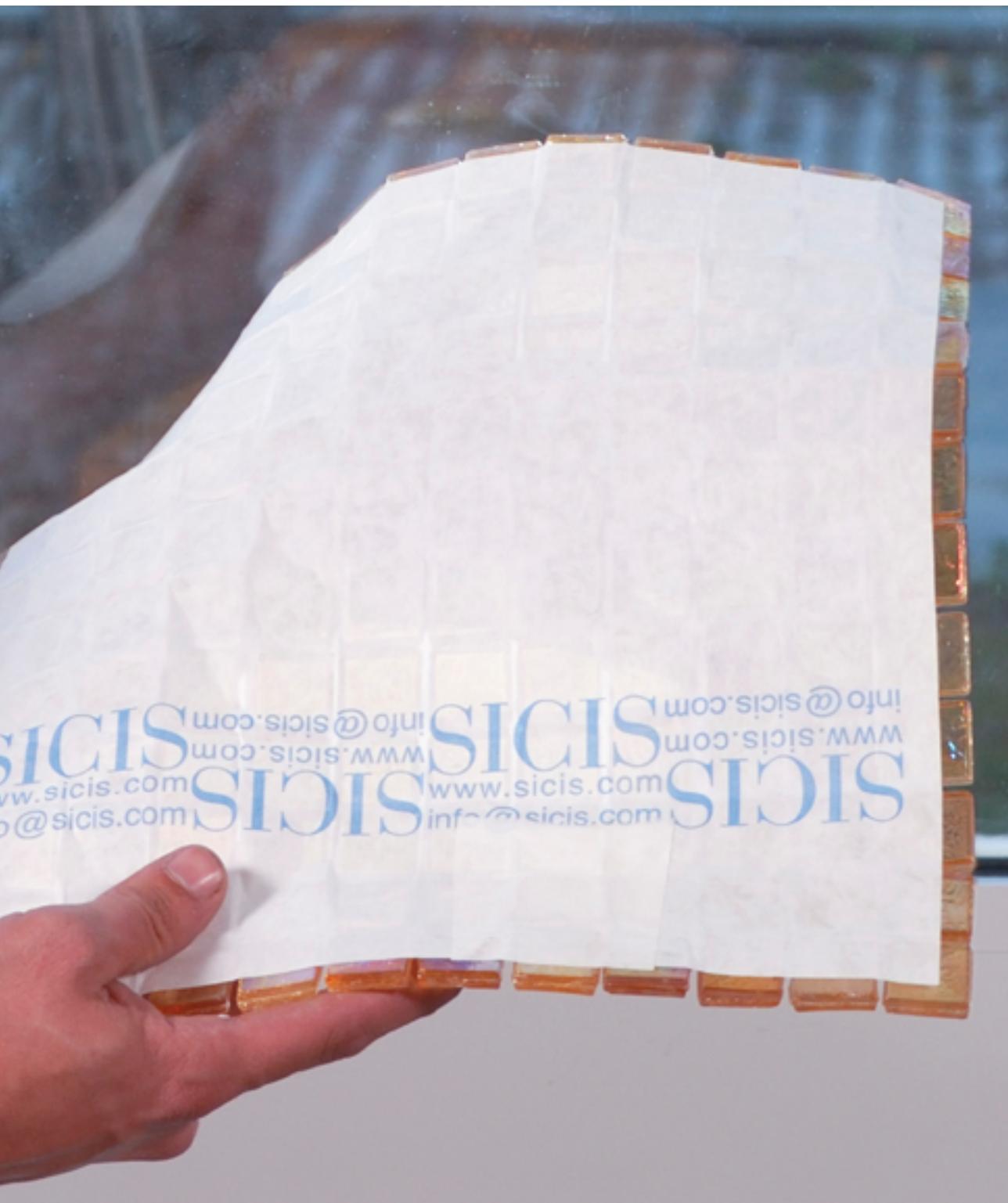
SICIS uses three different types of supports according to the project.

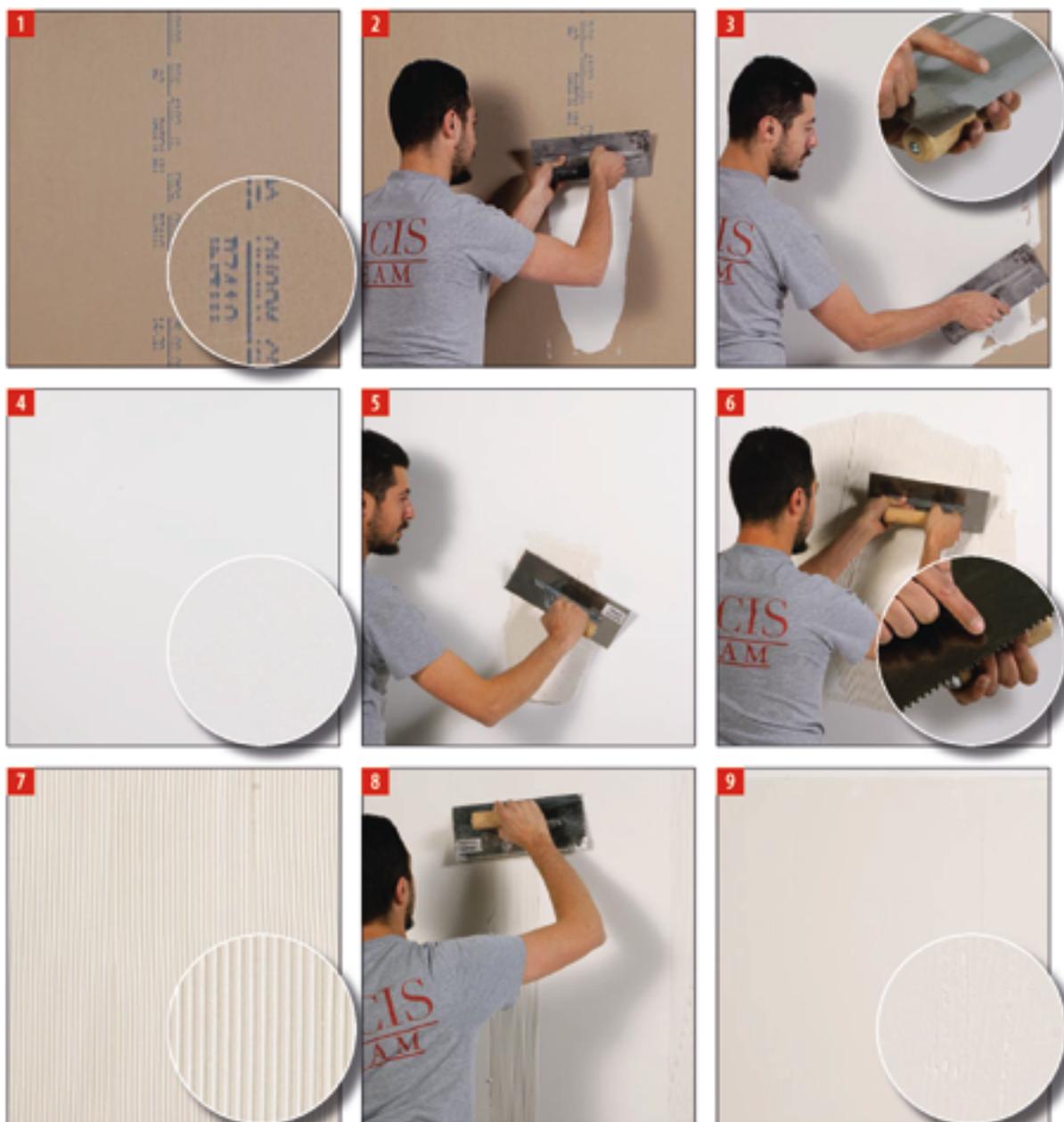
1. Support on paper

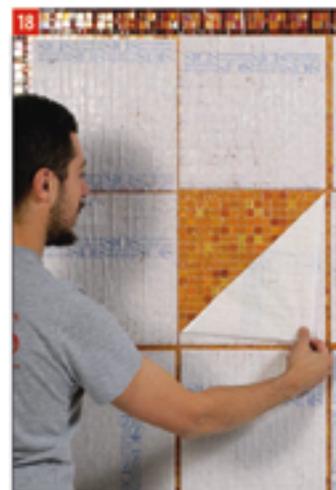
is used in industrial application.

It is suitable to use on transparent or backlit surfaces. It has a lower cost than other types of mesh but it requires skilled installers and has higher costs.

The speed of laying a mosaic on paper is approximately 7sqm in 8 hours.







ATTREZZATURE - EQUIPMENT - OUTILS
HERRAMIENTAS - WERKZEUGE - УКЛАДКА

ATTREZZATURA (A) Fresa elicoidal per movente del collante e sigillante (B) Set di cassette e spatole in acciaio inox (C) Spatola fissa, dentata quadrata 3 e mm 5 in acciaio inox (D) Cutter (E) Set di misurazione (metri, martello, tracciante) (F) Nastri in gommapiena per battitura fogli staccatura (G) Set di spugne in cellulosa specifica per la pulizia di prodotti specifici (H) Disco da taglio diamantato a forma continua montato su smegolatrice angolare (I) Testigia da taglio manuale per vetri (J) Termoisolante per rimozione pellicola adesiva.

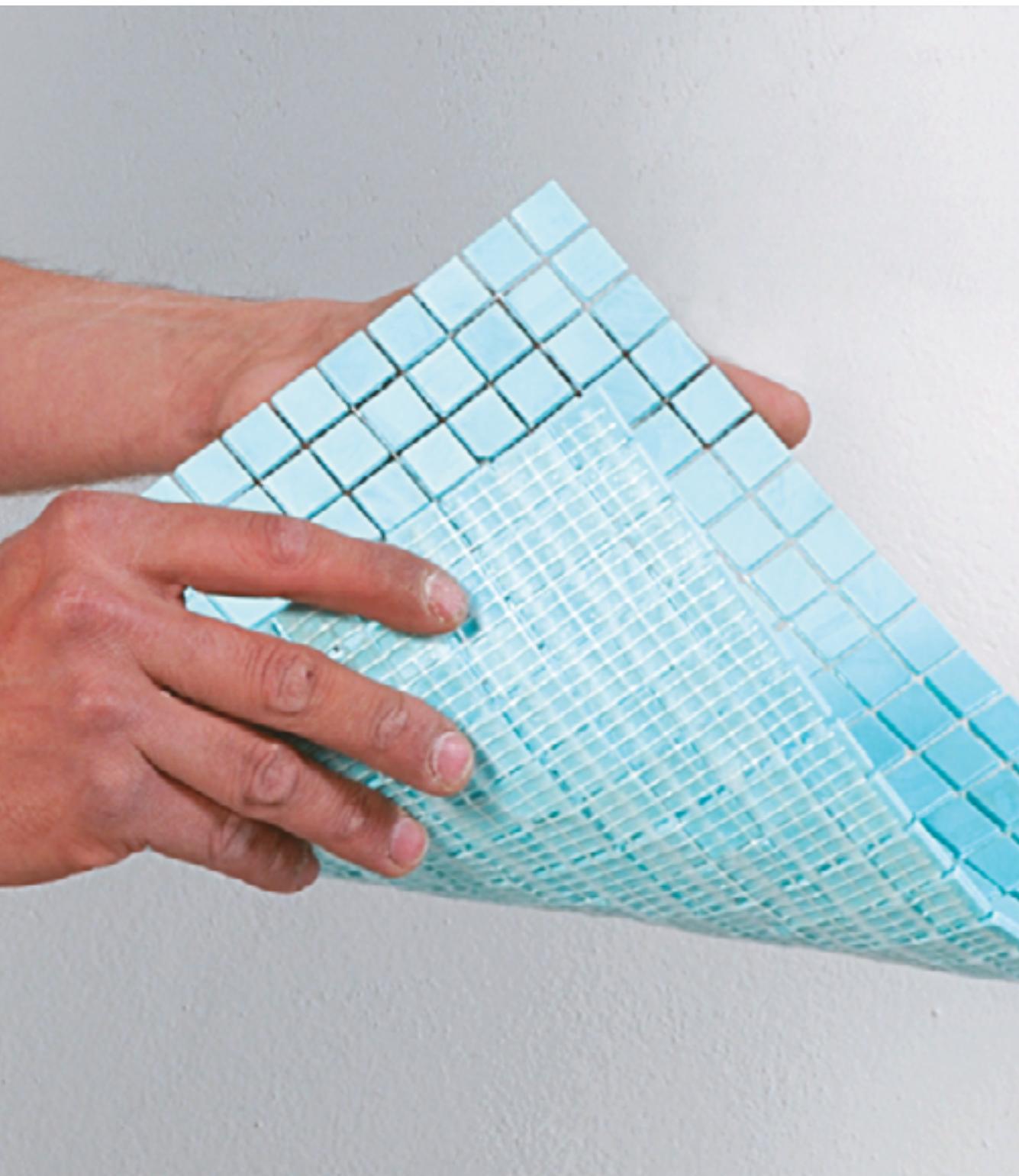
EQUIPMENT (A) Helical drill bit to mix binder and water (B) Stainless steel spatulas and trowels (C) Smoothie spatula, stainless steel square tooth 3 and mm 5 (D) Cutter (E) Measuring set (metre, pencil, ruler) (F) Rubber glitters to break and plaster sheets (G) Cellulose sponges set for cleaning epoxy materials (H) Continuous gear diamond cutting wheel fitted on angular sanding machine (I) Resin for manual cutting for the glass (J) Fan for adhesive film removal.

OUTILS (A) Furet hélicoïdal pour mélanger l'adhésif et la colle à colorer (B) Set d'outils et spatules en acier inox (C) Spatule fixe aux dents carrées 3 et mm 5 en acier inox (D) Cutter (E) Set instruments mesure (mètre, crayon, règle) (F) Soléole en caoutchouc pour battage feuilles et staccage (G) Set éponge en cellulose spécifique pour nettoyage produits à base époxy (H) Disque diamant à coupe per à continue continu installé sur polisseuse angulaire (I) Testeille manuelle pour verre (J) Ventilateur thermique pour ôter la pellicule adhésive.

HERRAMIENTAS (A) Mochelena para cemento cola y material de rejuntar (B) Fajido abutili rectangular (C) Equilibrio la su con dentado cuadrado de 3-5 mm en acero inox (D) Cutter (E) Metro (F) Llave con base de goma para ligular y rejuntar (G) Conjunto de reglas de celuloza específica para la limpieza de productos epoxídicos (H) Disco de corte diamantado de banda continua (I) Testigo de corte manual de vidrio (J) Ventilador para despegar película adhesiva (vacuado).

WERKZEUGE (A) Spiralförmige Nägelbit zum Mischen des Klebers und des Färbemittels (B) Satz Glätteliste und Spachtel aus Edelstahl (C) Glättel, 3 mm und 5 mm-Zahnspatula aus Edelstahl (D) Glättel (E) Messgeräten aus Gummifür das Kneten der Mörtelblätter und die Befestigung (F) Satz Spezialreinigungswatten zur Entfernung von Epoxid-Produkten (G) Zahnline Messscheitel auf Winkel-Sandstrahlmaschine (H) Moßsägegerät zum manuellen Glättel schneiden (I) Metallgitter für die Entfernung der Schutzfolie.

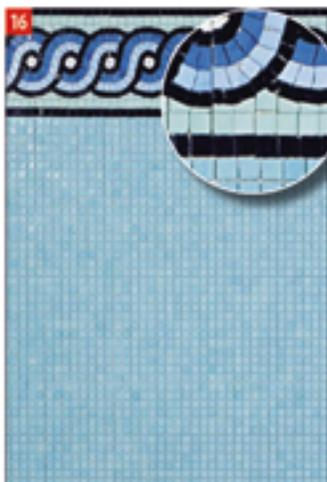
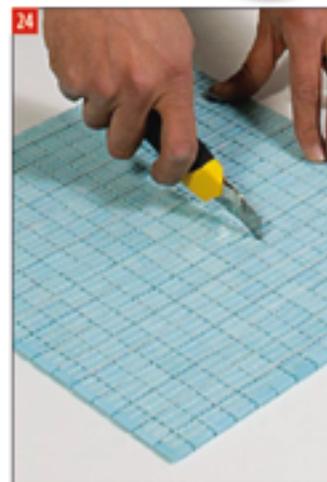
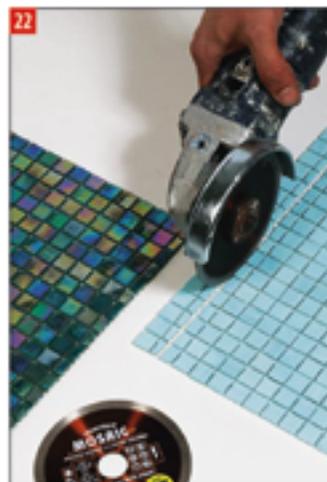
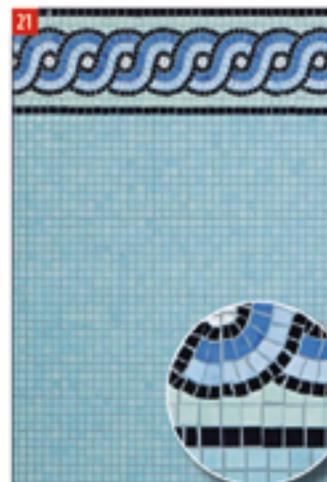
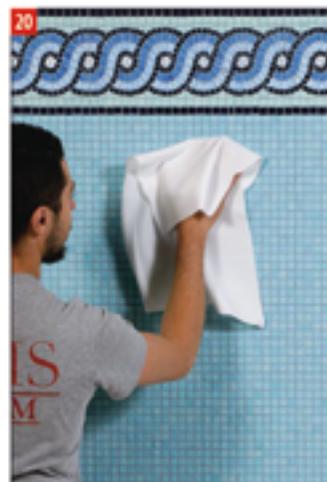
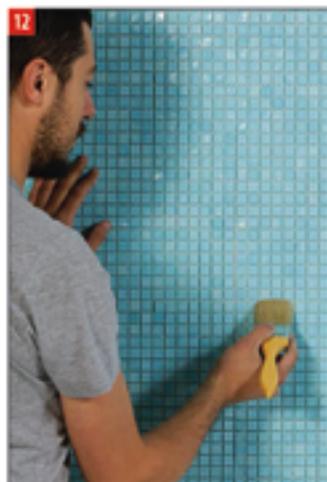
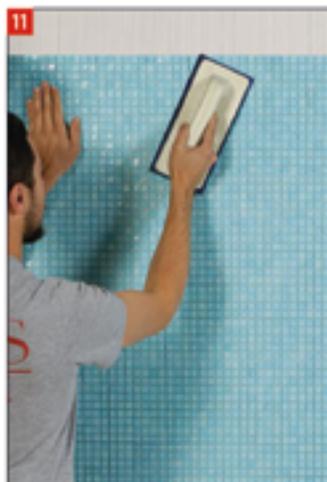
УКЛАДКА (A) Мастер для смешивания клея и затирки (B) Мастерки и spatule из нержавеющей стали (C) Мастерки с 3-мм и 5-мм зубьями (D) Мастерки с резиновой основой для выравнивания и затирки (E) Набор измерительных инструментов (рулетка, карандаш) (F) Полиуретановый коврик для укладки листов мозаики и затирки (G) Набор специальных губок для очистки эпоксидных составов (H) Диск с алмазным покрытием и непрерывной лентой (I) Кувалда для ручного резки стекла (J) Вентилятор для удаления пленки клея.



2. Support on fiber mesh

is used in particular for the mosaics of the Murano and Iridium collections. Given the greater ease of installation and therefore the greater speed, it is the most used mode. Laboratory tests have in fact demonstrated the tear resistance of the mosaic on the net. **A mosaic on the mesh allows to obtain on average 15 m² in 8 hours**, doubling the laying speed and therefore allowing to reduce costs, both in terms of time and of the adhesive used. It is ideal for laying in swimming pools and outside buildings, because it allows excellent adhesion to the concrete substrate which avoids the risk of detachment of the tiles.





**ATTREZZATURE - EQUIPMENT - Outils
HERRAMIENTAS - WERKZEUGE - УКЛАДКА**

ATTREZZATURE (A) Frusta elicoidale per miscelazione del collante e sigillante (B) Set di cazzuole e spatole in acciaio inox (C) Cassetta forata, diametro quadrato mm 1 o mm 5 in acciaio inox (D) Cutter (E) Set di rasatura (punta, punta, punta, punta) (F) Piatto di lavoro in legno con battenti e staccacollante (G) Set di spugne in cellulosa specifiche per la pulizia di prodotti epoxici (H) Disco da taglio diamantato a corpo continuo montato su un'angolare angolare (I) Taglio da taglio manuale per vetro (J) Termoventilatore per riscaldare la pellicola adesiva.

EQUIPMENT (A) Helical whisk for mixing adhesive and sealant (B) Handled steel scrapers and trowels (C) Stainless square, stainless steel square tools mm 1 and mm 5 (D) Cutter (E) Rasping set (point, point, point, point) (F) Rubber plate with battens and glue remover (G) Cellulose sponges set for cleaning epoxy materials (H) Continuous gear diamond tapping wheel placed on angle sanding machine (I) Plier for manual cutting for the glass (J) Fan for adhesive film removal.

WERKZEUGE (A) Front helical whisk for mixing the adhesive and the sealant (B) Set trowels and spatulas in steel inox (C) Square hole saw dedicated mm 1 et mm 5 in steel inox (D) Cutter (E) Set rasoirs mélange (pointe, pointe, pointe, pointe) (F) Plate de travail en bois avec battants et décollant (G) Set d'éponges en cellulose spécifiques pour le nettoyage des produits époxy (H) Disque de coupe diamanté à corps continu installé sur perceuse angulaire (I) Pince à main pour le verre (J) Ventilateur thermique pour sécher la pellicule adhésive.

УКЛАДКА (A) Миска для змішування клею і герметика (B) Інструмент з нержавіючої сталі для зняття клею і герметика (C) Диск для свердління отвору 1 мм і 5 мм в нержавіючій сталі (D) З'єднання (пунктир, пунктир, пунктир, пунктир) (E) Платформа з дерев'яними брусками та вибивачем клею (F) Набор губок з целюлози для очищення епоксидних матеріалів (G) Диск з алмазним напівкругом для різання скла (H) Дисковий алмазний різальний диск з постійним корпусом, встановлений на кутковій шліфувальній машині (I) Плоскогубці для ручного різання скла (J) Тепловентилятор для сушіння клею.

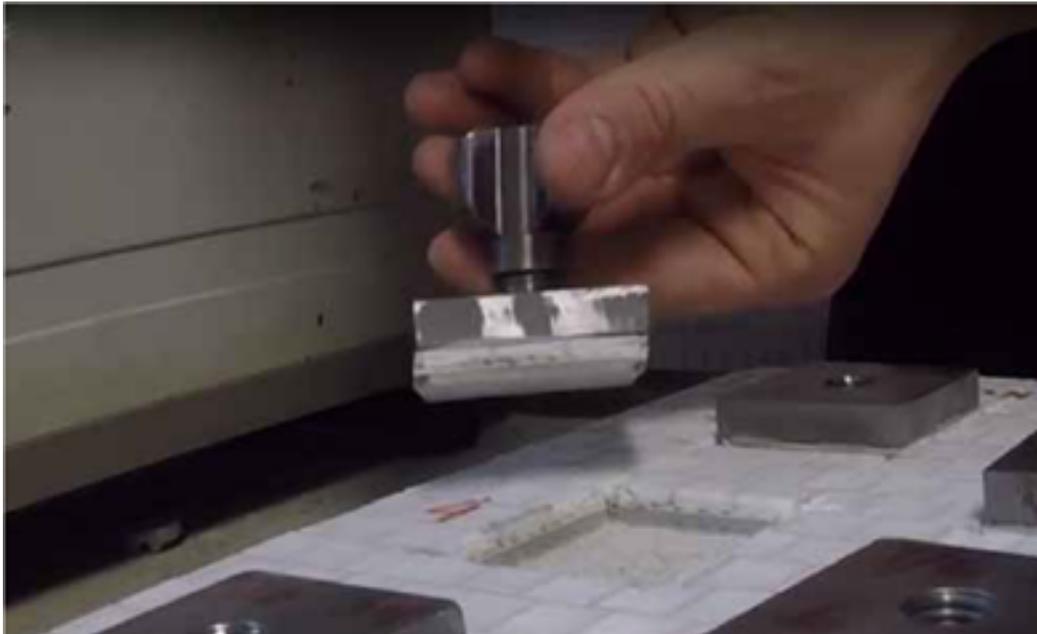
МATERIALS (A) Mescladora para cementació i material de segellat (B) Pletes d'acer inoxidable (C) Espatula llisa amb diamant quadrat de 1 o 5 mm en acer inoxidable (D) Cutter (E) Llana amb base de goma per raspall i segellat (F) Conjunt de esponges de cel·lulosa específiques per a la neteja de productes epoxídics (G) Disc de corte diamantado de banda continua (H) Trazador de corte manual de vidrio (I) Termoventilador para despegar película adhesiva (acabada).

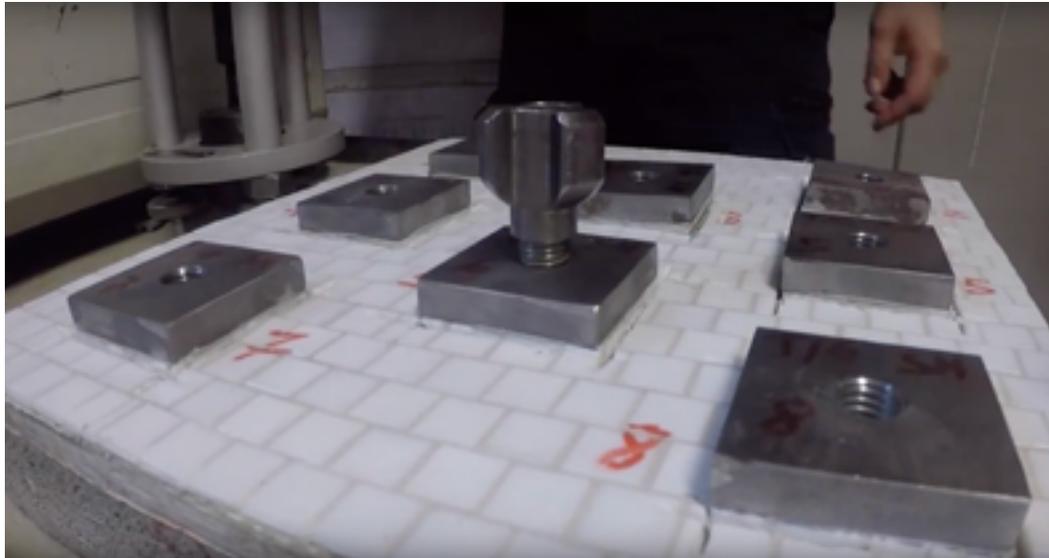
WERKZEUGE (A) Spritzförmiges Rührgerät zum Mischen des Klebers und des Fugenmittels (B) Leder Löffelkelle und Spachtel aus Edelstahl (C) Quadrat 1 mm und 5 mm-Zahnspachtel aus Edelstahl (D) Cutter (E) Messergräten-Gebäckstocher, Lötlöffel, usw. (F) Arbeitsplatte aus Holz für das Abgeben der Messergräten und die Verfügen (G) Leder Spachtelbrennmaschine zur Entfernung von Epoxy-Produkten (H) Zahnräder-Trennscheibe auf Winkel Schleifmaschine montiert (I) Messerschere zum manuellen Glas schneiden (J) Heißluftföhrer zur Entfernung der Schutzfolie.

УКЛАДКА (A) Миска для змішування клею і герметика (B) Металева лопатка з нержавіючої сталі (C) Шпатель з нержавіючої сталі з алмазним квадратом 1 мм і 5 мм (D) З'єднання (пунктир, пунктир, пунктир, пунктир) (E) Платформа з гумовою основою для вибивання клею і герметика (F) Набор губок з целюлози для очищення епоксидних матеріалів (G) Алмазний диск з постійним корпусом для різання скла (H) Дисковий алмазний різальний диск з постійним корпусом, встановлений на кутковій шліфувальній машині (I) Плоскогубці для ручного різання скла (J) Тепловентилятор для сушіння клею.

the tear resistance test of SICIS mosaic on mesh

[Watch the video](#)





SICIS mesh mosaic has tear resistance guarantees higher than that made with a concrete base. These have been proven by laboratory tests carried out by the Bologna Ceramic Center, for which certificates have been issued which can be consulted in the attached document.



CENTRO DI RICERCA E SPERIMENTAZIONE
PER L'INDUSTRIA CERAMICA

Bologna, 23/03/2018

SICIS S.r.l.
Via Canala 79
48124 RAVENNA (RA)

TEST LABORATORY

TEST REPORT No. 2805/18

Requested by:	SICIS S.r.l. Via Canala 79 48124 RAVENNA (RA)
On (date):	31/01/2018
For the sample marked:	*SICIS GLASS MOSAIC ASSEMBLED ON A MESH AND INSTALLED ACCORDING TO THE LAYERS DESCRIBED BELOW: - SUPPORTING LAYER: SCREED MADE UP OF LITOCHEM PRONTO - THICKNESS 4 CM. - WATERPROOFING LAYER: COVERFLEX AND FIBERGLASS MESH - ADHESIVE: LITOElastic, - COVERING: SICIS GLASS MOSAIC MESH MOUNTED - GROUTING: STARLIKE *

The results reported relate only to the samples tested.

No responsibility is taken for the accuracy of the sampling unless it is done under our own supervision.

The reproduction of this test report is only authorized in the form of a complete photographic facsimile.

Our written approval is necessary for any partial reproduction.

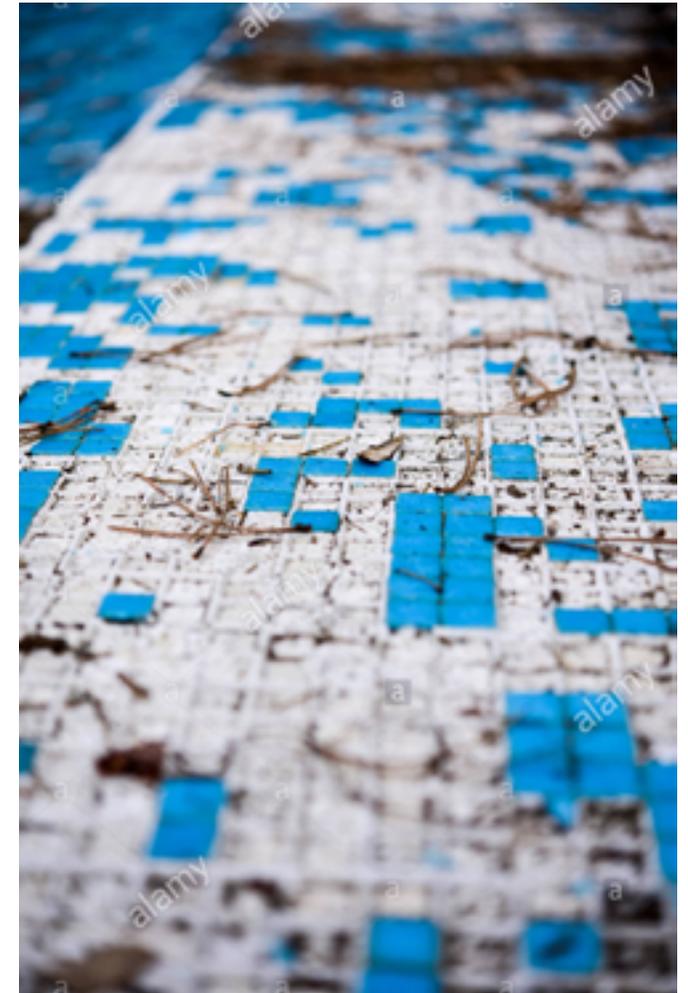
This test report consists of 4 pages this cover included.

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Part. IVA 0094778-0375

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41049 Sassuolo (MO) - Italy
Tel. +39 0536 802154
Fax +39 0536 800662

other mosaics



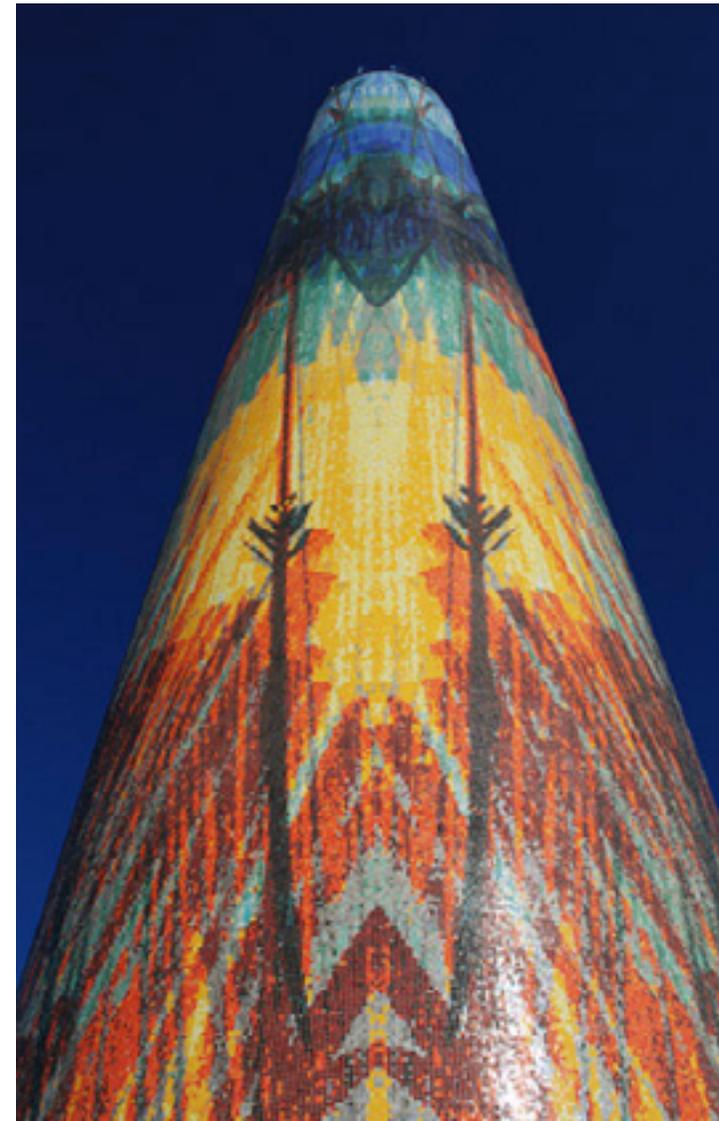
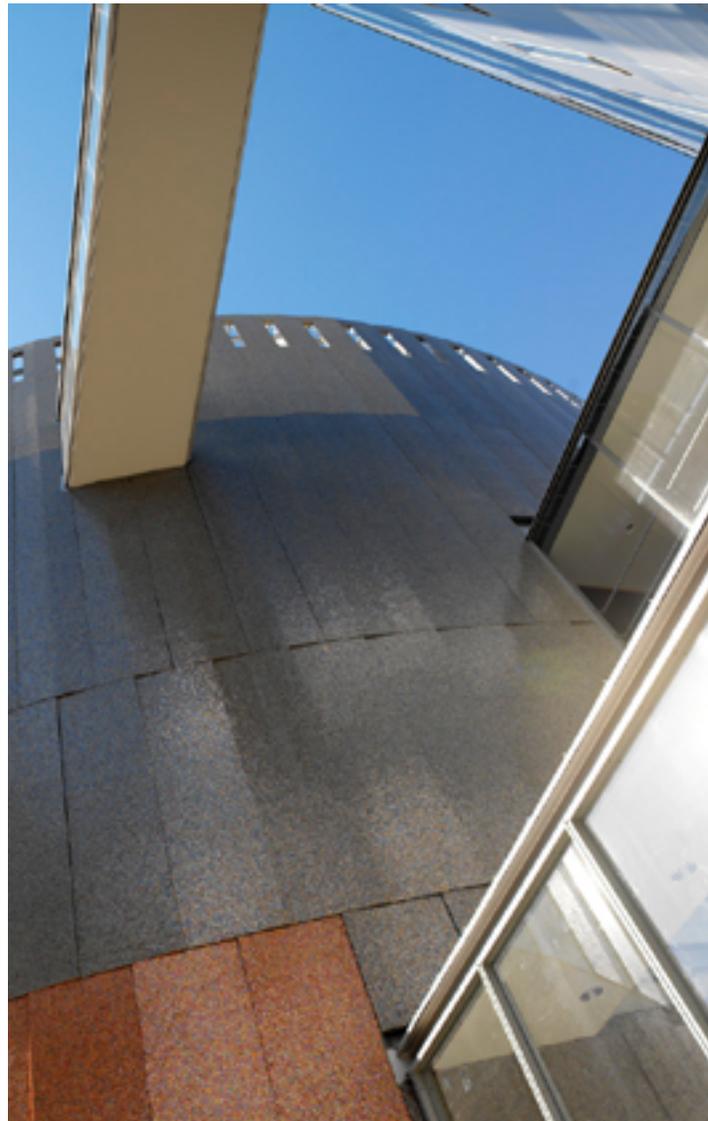
Examples of tear resistance of mosaics, produces by other companies, made with a concrete base.

These cases show that over time the card detaches easily from the base surface.



SICIS mosaics in outdoor architecture

SICIS®



SICIS mosaics in swimming pools

SICIS®

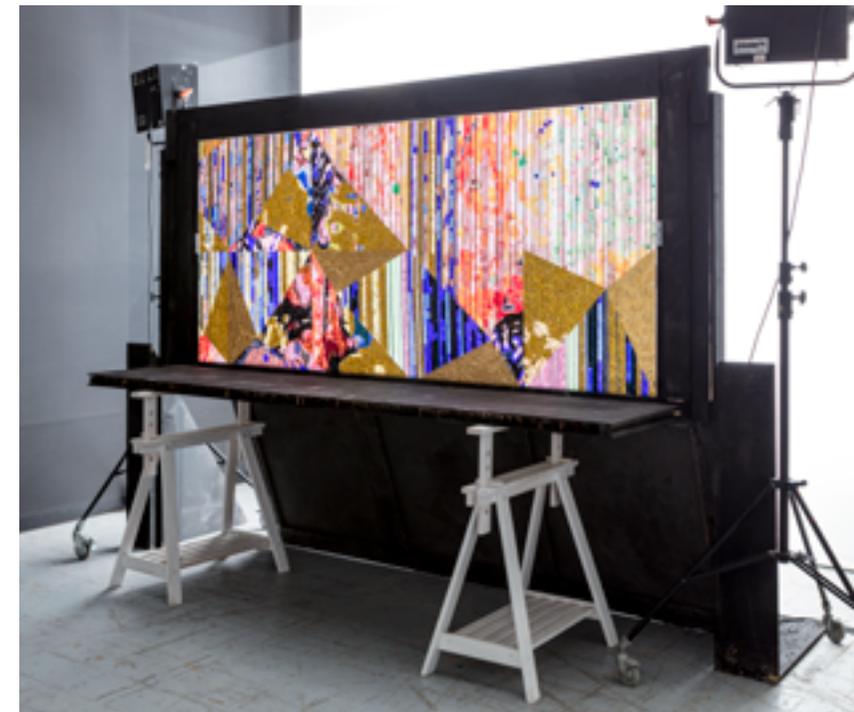


SICIS®

3. Support on exclusive SICIS fabric

It is used for artistic mosaics.

They are useful **for laying mosaic on plexiglass or glass** in order to obtain a **backlit effect**. It also allows laying on a concrete base.



SICIS®



CERTIFIED ISO 9001

LATICRETE INTERNATIONAL, INC.
1 LATICRETE PARK NORTH
BETHANY, CONNECTICUT 06524-3423
USA
TELEPHONE: 1 (203) 393-0010
FAX: 1 (203) 393-3584
Internet - <http://laticrete.com>

Title: Bond Strength to Sicis Glass 3 Mosaic Tile

Project Number: 050115-D-015-237

Author: Steven Fine

Date: 17 January 2005

Job Reference:

Introduction:

The objective of this project was to determine the bond strength of LATAPOXY® 300 Epoxy Thinset to Sicis Glass 3 resin backed glass mosaic tile to concrete. The tile has a plastic resin backing which is rather unusual in the tile industry.

Procedure:

The glass mosaics were approximately 9/16 inch x 9/16 inch by 1/8 inch thick. They had a plastic sheet mounting on the back of the tile. The samples were prepared using a modification of ANSI A118.10 M-5 Shear strength to Ceramic Tile and Concrete. The mosaics were cut into approximately 4 inch by 4 inch sections. They were bonded to the back side of Wausau concrete blocks. Tile (4 inch x 4 inch) was bonded to the top of the mosaics with LATAPOXY 310 before the samples were tested. The shear force was applied to the tile bonded to the mosaics to ensure homogeneous force application.

Please be advised that this test is not intended to be representative of field conditions and is being performed for evaluation purposes only.

Results:

7 day tile/concrete	112 psi (0.77 MPa)
stddev.	38 psi (0.26 MPa)
7 day cure 7 day water soak tile/concrete	204 psi (1.41 MPa)
stddev.	83 psi (0.57 MPa)
28 day tile/concrete	149 psi (1.03 MPa)
stddev.	22 psi (0.15 MPa)
28 day cure 20 cycle F/T soak tile/concrete	142 psi (0.98 MPa)
stddev.	8 psi (0.05 MPa)

All failures were the glass mosaics from the backing sheet.

Conclusions:

There is no ANSI standard for the bond strength of glass mosaic tile. The glass mosaic tile industry uses an internal standard of 150 psi shear strength to concrete for all test conditions. LATICRETE has adopted that internal standard.

The bond strength of the LATAPOXY 300 met the minimum internal specification of 150 psi for interior, exterior, and wet areas. There was no margin for error as the bond strengths do not exceed the minimum requirements.

LATAPOXY 300 is recommended for bonding to Sicis Glass 3 resin backed glass mosaic tile for interior and exterior installations and wet areas

S.B. Fine

Steven B. Fine

Senior Product Development Chemist for North America

LATICRETE® World Leader in Installation Systems for Ceramic Tile & Stone for 40 Years LATAPOXY®

1/18/05 2004 12:08 FAX

KERAKOLL EXPORT DEPT

0001

pull tests

2005. Laticrete and Kerakoll certify that SICIS filtering fabric is suitable with their adhesives to obtain the performances listed above.

Messrs.

Sicis Mosaico di Ravenna

Via M. Monti, 9/11

48100 Ravenna

For the kind attention of Mr. Gianfranco Roberto

Subject: mosaic/glass textile tests

The a.m. tests have been carried out laying the samples you supplied us with H40 Tenax and filled both with Fugabella D-2 (cementitious) and with Fugabella Epoxy (epoxy).

The samples maturing has taken place both in air and in water, and the methodology used is that fixed by the regulations EN 1348.

The pull test showed an excellent resistance, always >1,0 Mpa, except for the sample filled with the epoxy, for which we will put off doing further checks.

Sure we shall please you, we take the opportunity to offer you our best regards.



Kerakoll S.p.A. - Sede e stabilimento: Via San Lazzaro, 10 - 37030 San Giovanni Lupatoto (VI) - Italia

Kerakoll (USA) Inc. - 41001 Avenida de las Americas - Suite 100 - San Diego, CA 92108 - USA

Kerakoll (UK) Ltd. - 41001 Avenida de las Americas - Suite 100 - San Diego, CA 92108 - USA

Kerakoll (France) S.A.S. - 41001 Avenida de las Americas - Suite 100 - San Diego, CA 92108 - USA

Kerakoll (Spain) S.L. - 41001 Avenida de las Americas - Suite 100 - San Diego, CA 92108 - USA

Kerakoll (Italy) S.p.A. - 41001 Avenida de las Americas - Suite 100 - San Diego, CA 92108 - USA

Can the tesserae come off?

If laid according to the instructions contained in the official SICIS installation manual, the tiles do not come off and remain perennial.

The mosaic has a defect, it is different from what I ordered. Why?

Please check the type of mosaic you ordered. If the ordered mosaic is supplied pre-assembled on paper then the visible face of the mosaic, before being installed, is actually the rear one, because the front one is facing the paper.

Do I have to install the mosaic tile by tile?

No, the mosaic is pre-assembled by SICIS before being shipped and supplied in 30x30cm (approx) sheets to facilitate installation.

The tesserae are all irregular and have holes, are they damaged?

No, being a natural product and made according to traditional techniques, its irregularities are unique characteristics of the SICIS product. Each tessera is unique. There may be differences in shades, small imperfections or a slight cracking effect.

But is your mosaic suitable for wet areas?

Obviously yes, being our mosaic created with minerals and natural materials, and if installed correctly it does not fear chemical additives.

Can mosaic be used to make a Turkish bath?

Yes. SICIS mosaic is made with minerals and natural materials that do not fear humidity or high temperatures. For application in wet areas such as Turkish baths or swimming pools, it is important to use special adhesives and follow the instructions contained in the installation manual.

Does the iridescence go away with time?

No, because it is a component used in the production of glass tesserae itself.

Does mosaic resist high and low temperatures?

Our mosaic is made according to traditional methods with high percentages of minerals that help strengthen the tiles and make them resistant to temperature changes.

Why the tiles have not a perfectly regular clean cut?

The tesserae are produced following traditional techniques, using a casting method patented by SICIS. In this way the tiles are not perfectly regular, a unique feature of the SICIS mosaic.

How is the mosaic laid on paper? Do the tiles go under or above?

The mosaic with paper support must be laid with the free part attached to the support surface, then with the paper facing upwards. Once the laying is complete, the paper must then be removed.

In the Diamond collection, are Item 02, T45 and H1 different forms of chips?

No, the tiles in the Diamond collection are all rhomboid in shape and of the same size. However, it is possible to vary the angle in the juxtaposition of one card to another, to create different types of patterns (grid, herringbone, floral).

Does the mosaic last over time?

SICIS mosaic is made with traditional methods and high percentages of minerals that contribute to giving it strength and brilliance lasting over time. If installed following the specific instructions of our installation manuals, it resists wear and the strength of time.

For any information on our mosaics or to find the installation manuals you can
visit our website
www.sicis.com

Our staff is at your disposal throughout the territory.

SICIS