



# U.S. Stock 2023

# U.S. STOCK 2023

## TABLE OF CONTENTS

Introduction	3
Hytect	5
Sustainability	7
Amano	8
Area Pro	12
Basic Stone	17
Centino	21
Craft	25
District	29
Fresh	33
Karl	41
Loop	46
Pattern	53
Technical Data	57

# MEET AGROB BUCHTAL

How do designers find the necessary freedom for their creativity? With the great diversity of the product range of Agrob Buchtal. Agrob Buchtal offers practically unlimited design options, with a variety of formats ranging from mini-mosaics to large format tiles. This opens a wide spectrum of design options for giving surfaces a rhythmic structure, setting accents, or creating geometric designs. The variety of colors permits ultimate freedom of expression.



Agrob Buchtal products ensure an individual look, not only in hotels and shopping malls, but also in the private residence sector. With the object of supporting creative architectural concepts, Agrob Buchtal also has competencies in special project-specific solutions, such as swimming pools and facades.



# PRODUCT QUALITY

“Made in Germany” - that’s the standard

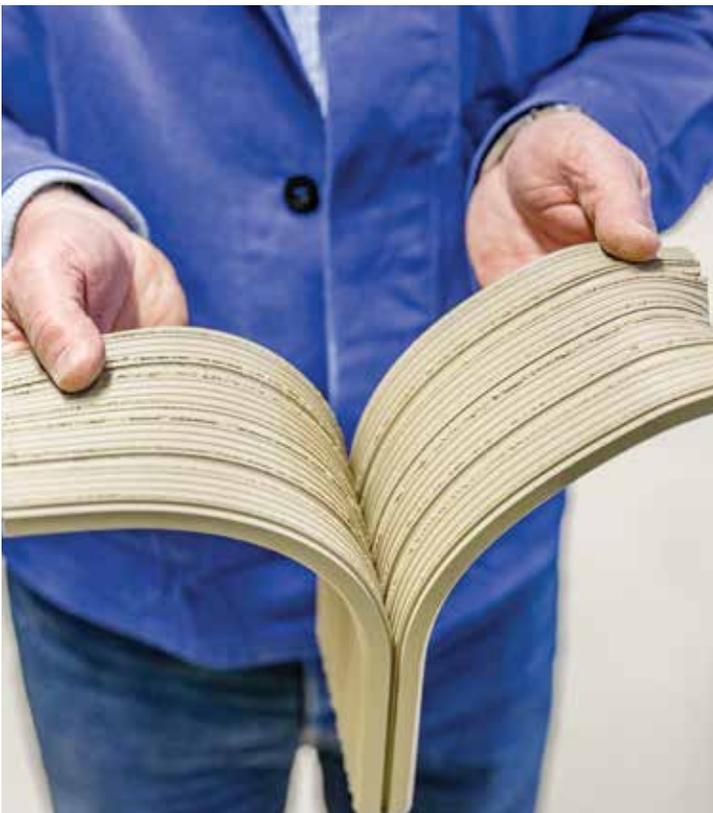
Top quality products, thanks to modern technology.



When it comes to quality, Agrob Buchtal refuses to compromise. This is ensured by the modern manufacturing technology at the four German manufacturing sites where the majority of all the products, from small mosaics to façade elements, are produced. An experienced workforce of approximately 1,200 qualified employees ensures the highest degree of precision.

## Production Sites:

- » Alfter-Witterschlick
- » Ötzingen
- » Schwarzenfeld
- » Sinzig



**Since we spend an estimated 90% of our life indoors, it is essential to have reliable, healthy living environments.**

Hytect technology offered by Deutsche Steinzeug makes a significant contribution to healthy indoor environments by impeding the growth of mold, bacteria, and other microorganisms, making surfaces easier to clean, and decomposing pollutants in the air, such as formaldehyde, grease odors, and chlorine in enclosed pool areas.

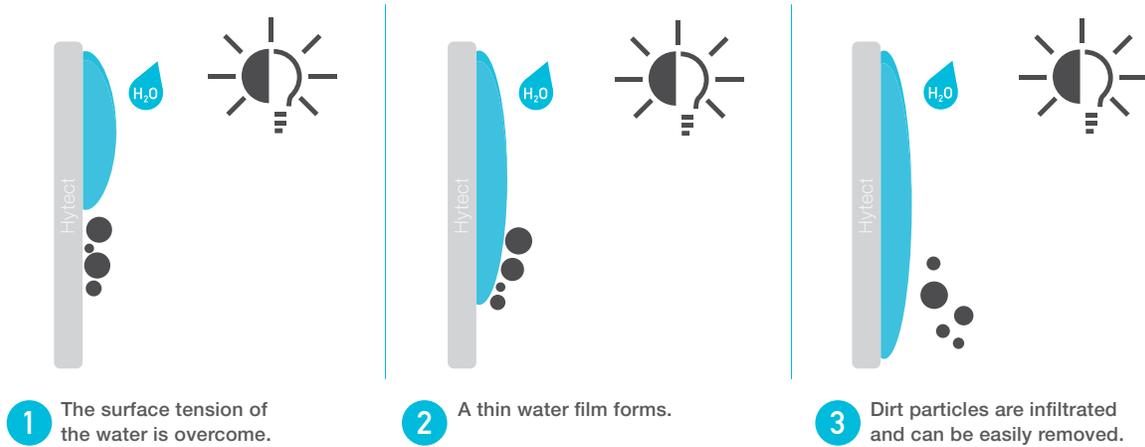
**All of this is achieved through the effects of light and air.**

Titanium Dioxide is fired insolubly and permanently into the tile surface at a high temperature. As a permanent catalyst, it triggers a practically life-long reaction, activated by light (photo catalysis) with oxygen and humidity. This interaction makes surfaces hydrophilic, allowing water to sheet dirt off the surface, kill germs and bacteria on contact, and eliminate odors.

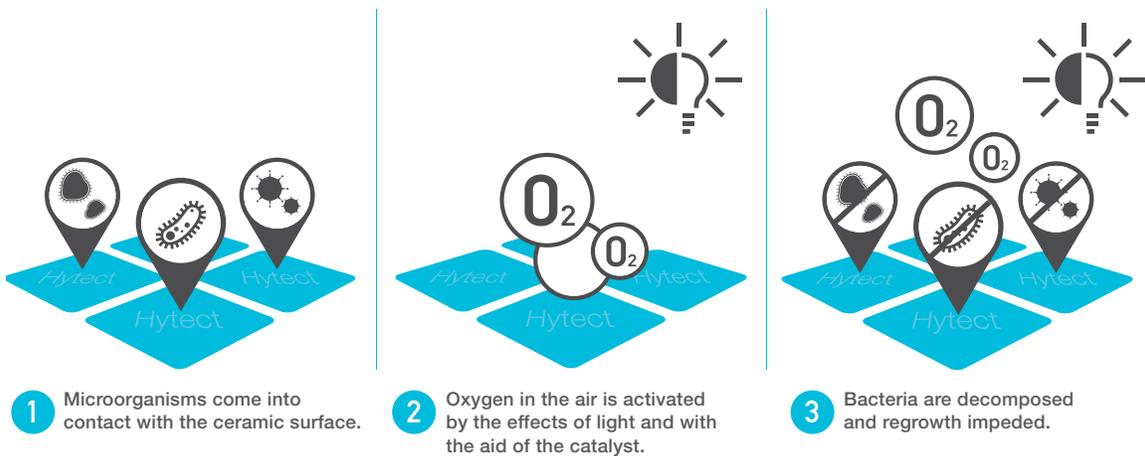


# THE EFFECTS OF HYTECT

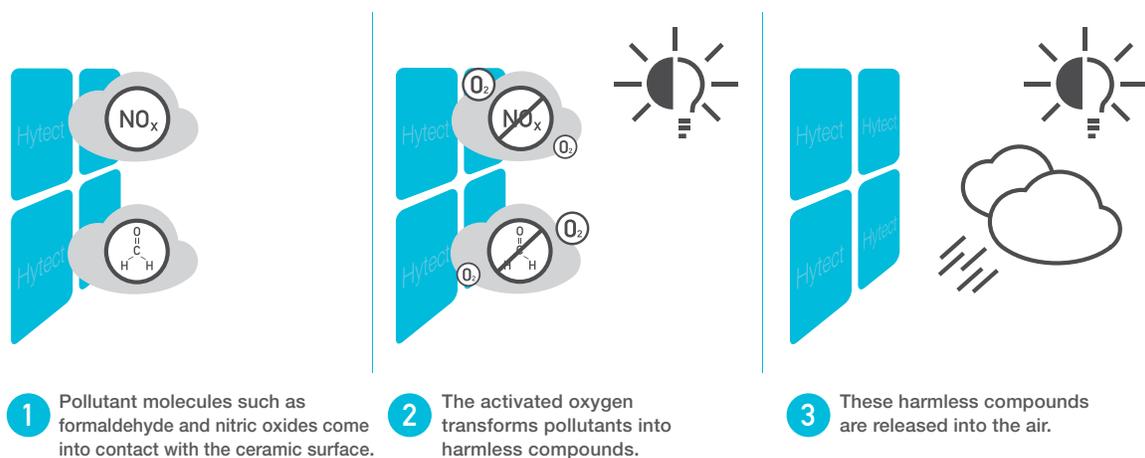
## Easy to clean.



## Effective against fungi and bacteria.



## Active elimination of air pollutants.



# SUSTAINABILITY

With over 100 years of manufacturing experience, Deutsche Steinzeug - Agrob Buchtal emphasizes sustainability throughout the entire manufacturing process. With responsibly sourced raw materials, efficient energy management systems, and comprehensive water, gas, and solid material recycling methods, Agrob Buchtal is committed to sustainability throughout the entire lifecycle of the porcelain.

Certifications:

**DECLARE LABEL:** Deutsche Steinzeug America's Declare Label encompasses the following series: Amano, Area Pro, Basic Stone, Centino, Chroma, Craft, District, Fresh, Loop, Plural (porcelain items only), Nova, and Streetlife.

**EPD:** Agrob Buchtal tile has an Environmental Product Declaration.

**DGNB:** Agrob Buchtal is member of the German Association for Sustainable Building, Deutsche Gesellschaft für Nachhaltiges Bauen.

For more information, please contact us.





**AMANO**

# AMANO

Experience the captivating allure of Amano, a collection inspired by the graceful movement of water. With its finely textured relief surface and blurred glazes, Amano creates watercolor-like effects, while the delicately transparent colors and glossy surface reflect light, enchanting with their natural charm and vibrant reflections.

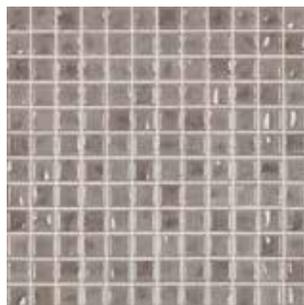


# AMANO

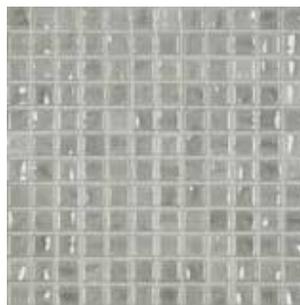
1" X 1" Mosaic



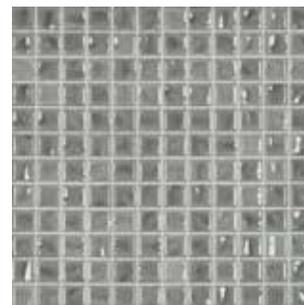
Cream  
41920H



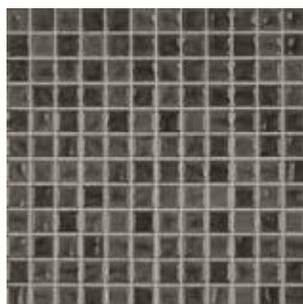
Taupe  
41921H



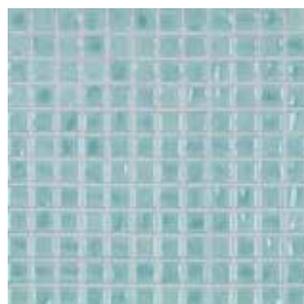
Light Grey  
41922H



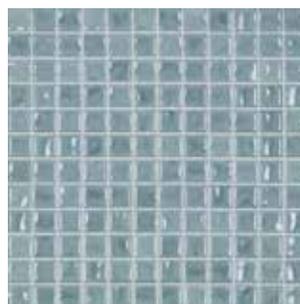
Medium Grey  
41923H



Anthracite  
41924H



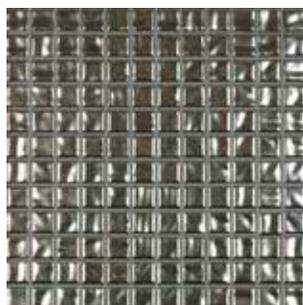
Ice Blue  
41925H



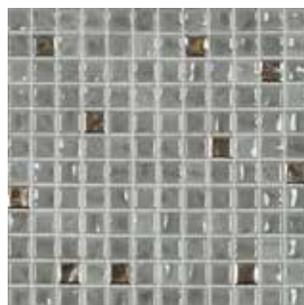
Silk Blue  
41926H



Pure Blue  
41927H



Metallic  
41928H



Medium Grey Metallic  
41929H



Taupe Metallic  
41930H

# AMANO

Formats	Material	Finish	Applications
1 X 1" Mosaic	Porcelain	High Gloss	<ul style="list-style-type: none"> <li>» Interior</li> <li>» Exterior</li> <li>» Wall Only</li> <li>» Wet Areas</li> <li>» Submerged Applications</li> </ul>

<b>Sheet Size</b>	297 X 297 mm
<b>Hytect</b>	Yes
<b>Frost Resistance</b>	Resistant
<b>Chemical Resistance</b>	Resistant *excludes metallic glazes which are not or only to a limited extent resistant to acids and alkalis.
<b>Submerged Applications</b>	Yes - mosaics are thermoplastically glued
<b>Color Shade Variation</b>	V1 - Low Variation: Standard Glazes V2 - Medium Variation: Metallic Glazes
<b>Availability</b>	Stocked in the USA

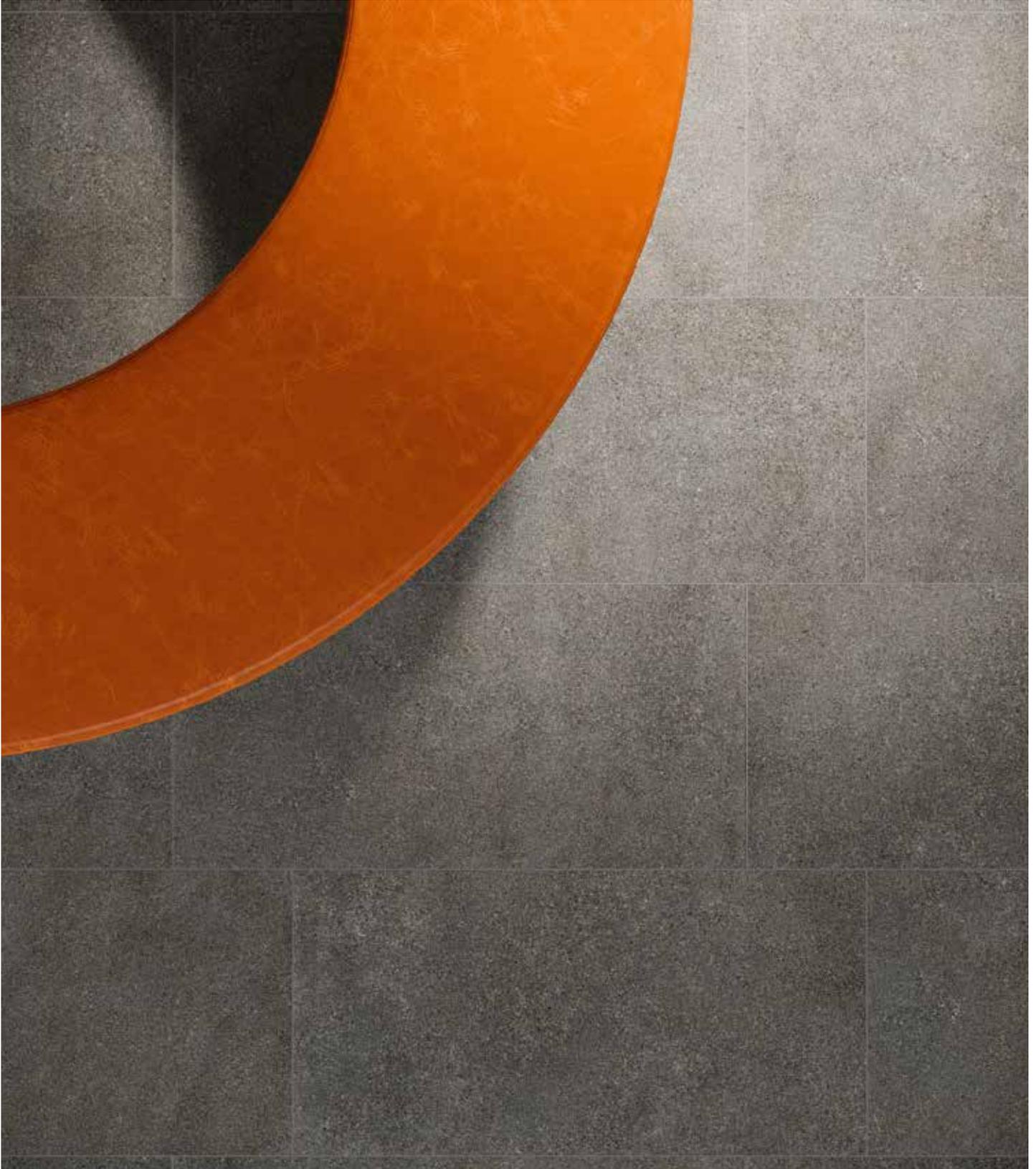


# AREA PRO

for future classics

# AREA PRO

A future classic. Drawing inspiration from the refined layers of limestone, these tiles embrace neutral earth-tones that effortlessly command attention in any environment.



# AREA PRO

12" X 24" Smooth Matte R10/A



Basalt R10/A  
430341H



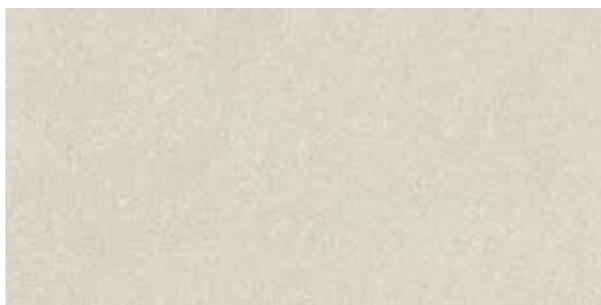
Pebble R10/A  
430342H



Sand Grey R10/A  
430345H



Sand R10/A  
430346H



Platinum R10/A  
430348H

# AREA PRO

8" X 8" Perlistic R12/C



Anthracite Perlistic R12/C  
430280H



Basalt Perlistic R12/C  
430281H

## Trim Pieces Smooth Matte R10/A



4" X 8" Cove Base  
Anthracite R10/A  
430428H



Internal Corner  
Anthracite R10/A  
430480H



External Corner  
Anthracite R10/A  
430492H



4" X 8" Cove Base  
Basalt R10/A  
430429H



Internal Corner  
Basalt R10/A  
430481H

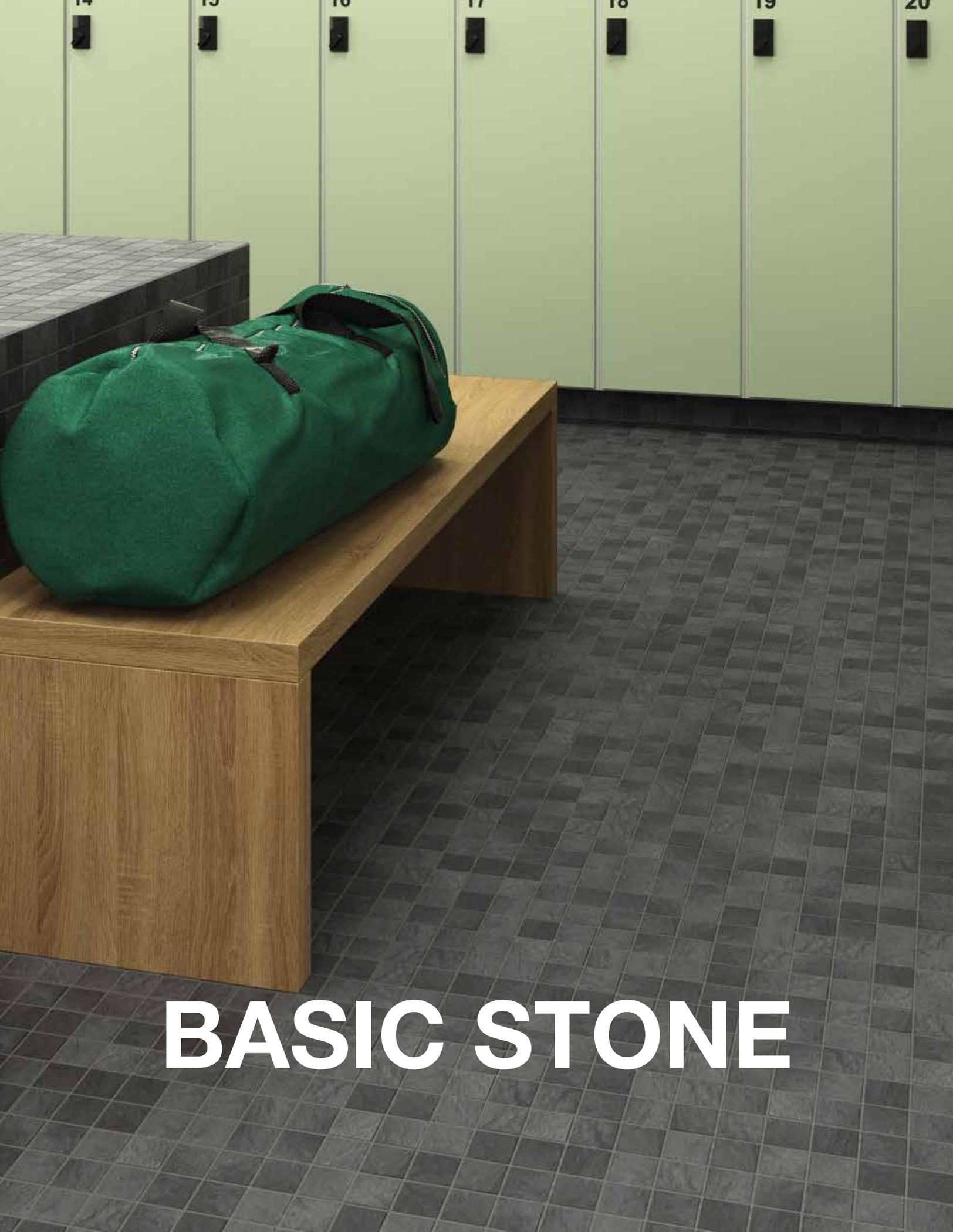


External Corner  
Basalt R10/A  
430493H

# AREA PRO

Formats	Material	Finish	Applications
12" X 24"	Porcelain	Smooth Matte R10/A	» Interior
8" X 8"		Perlistic R12/C	» Exterior
Cove Base			» Wall
Internal Corner			» Floor
External Corner			» Commercial Floor » Commercial Kitchens (R12/C) » Wet Areas

<b>Hytect</b>	Yes
<b>Slip Resistance</b>	R10/A, R12C
<b>DCOF</b>	.63 (R10/A) .68 (R12/C)
<b>Frost Resistance</b>	Resistant
<b>Chemical Resistance</b>	Resistant
<b>Rectified</b>	Yes
<b>Color Shade Variation</b>	V2 - Medium Variation
<b>Availability</b>	Stocked in the USA



**BASIC STONE**

# BASIC STONE

Crafted from durable unglazed porcelain stoneware, the Basic Stone mosaic surface presents a modern interpretation of slate through a relief mix and discreet graphics. The effect is enhanced by fine glossy spots of mica and subtle color contrasts.



# BASIC STONE

2" X 2" Mosaic R10/B



Black R10/B  
42200H



Medium Grey R10/B  
42201H



Light Grey R10/B  
42202H



Mud R10/B  
42203H



Beige R10/B  
42204H

# BASIC STONE

Formats	Material	Finish	Applications
2" X 2" Mosaic	Porcelain	Structured Matte R10/B	<ul style="list-style-type: none"> <li>» Interior</li> <li>» Exterior</li> <li>» Wall</li> <li>» Floor</li> <li>» Commercial Floor</li> <li>» Wet Areas</li> <li>» Submerged Applications</li> </ul>

<b>Sheet Size</b>	297 X 297 mm
<b>Hytect</b>	Yes
<b>Slip Resistance</b>	R10/B
<b>DCOF</b>	.53
<b>Frost Resistance</b>	Resistant
<b>Chemical Resistance</b>	Resistant
<b>Submerged Applications</b>	Yes - mosaics are thermoplastically glued
<b>Color Shade Variation</b>	V2 - Medium Variation
<b>Availability</b>	Stocked in the USA

Technical data available upon request.



**CENTINO**

# CENTINO

The three popular color blends of Centino offer a stylish and versatile solution to elevate any space by adding depth and character. With their exceptional design and durability, Centino tiles are ideal for a wide range of applications, including pools and wet areas, where their beauty can truly shine while maintaining their quality and charm.

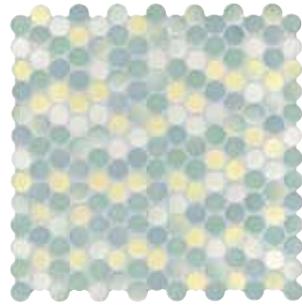


# CENTINO

1" Smooth Glossy



True Blue  
8823H

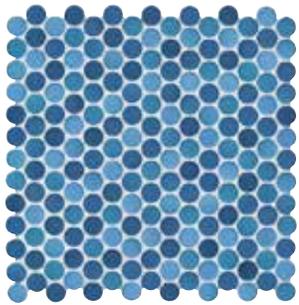


Light Lime  
8824H

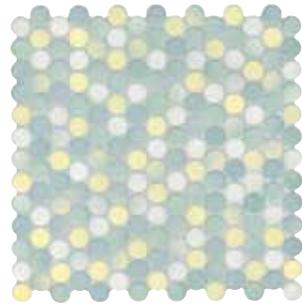


Feather Grey  
8827H

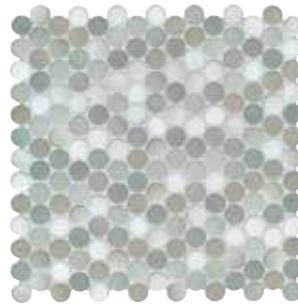
1" Smooth Matte R10/B



True Blue R10/B  
8863H



Light Lime R10/B  
8864H



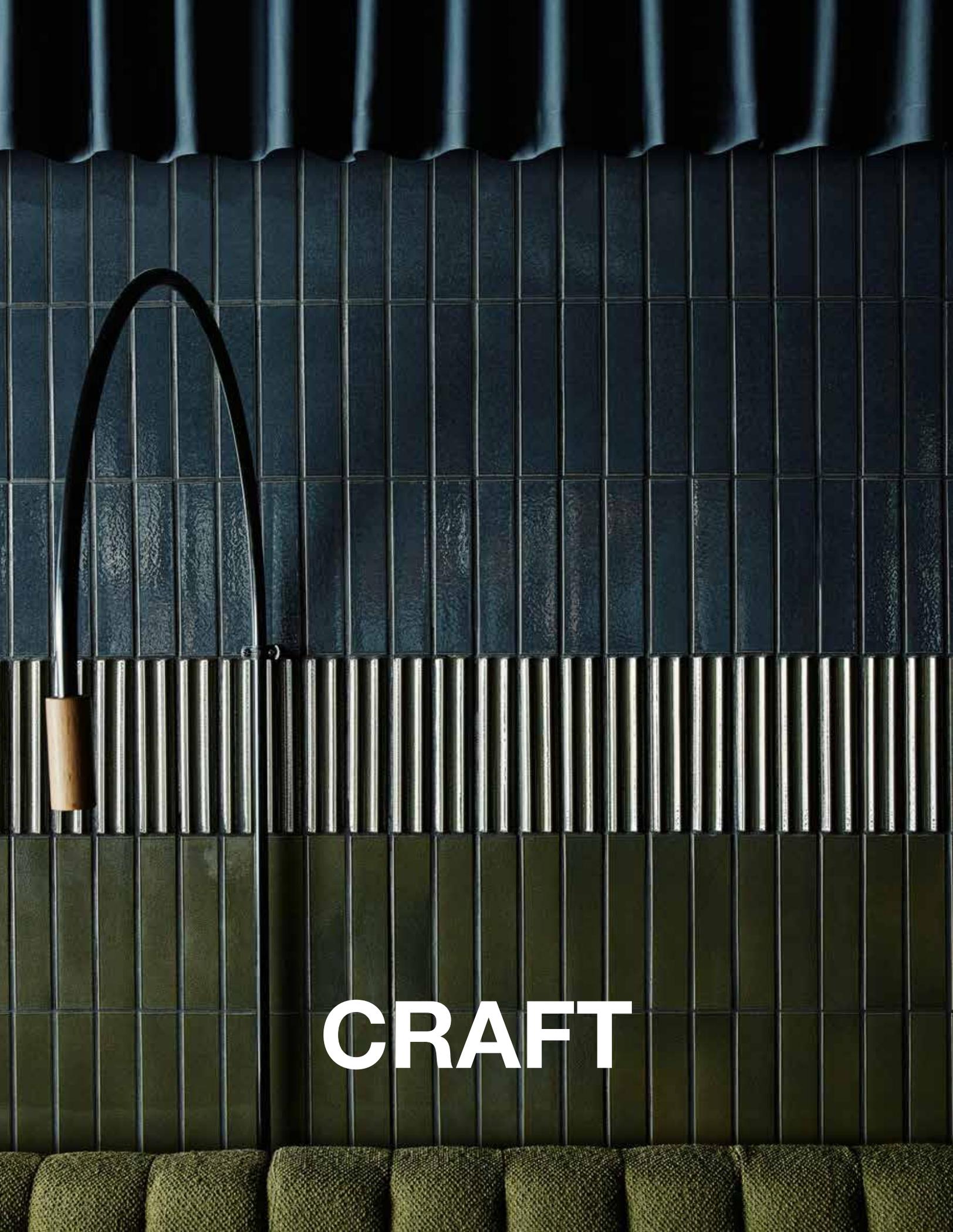
Feather Grey R10/B  
8867H

# CENTINO

Formats	Material	Finish	Applications
1" Mosaic	Porcelain	Smooth Glossy Smooth Matte R10/B	<ul style="list-style-type: none"> <li>» Interior</li> <li>» Exterior</li> <li>» Wall</li> <li>» Floor</li> <li>» Commercial Floor</li> <li>» Wet Areas</li> <li>» Submerged Applications</li> </ul>

<b>Sheet Size</b>	297 X 297 mm
<b>Hytect</b>	Yes
<b>Slip Resistance</b>	R10/B
<b>DCOF</b>	.62
<b>Frost Resistance</b>	Resistant
<b>Chemical Resistance</b>	Resistant
<b>Submerged Applications</b>	Yes - mosaics are thermoplastically glued
<b>Color Shade Variation</b>	V2 - Medium Variation
<b>Availability</b>	Stocked in the USA

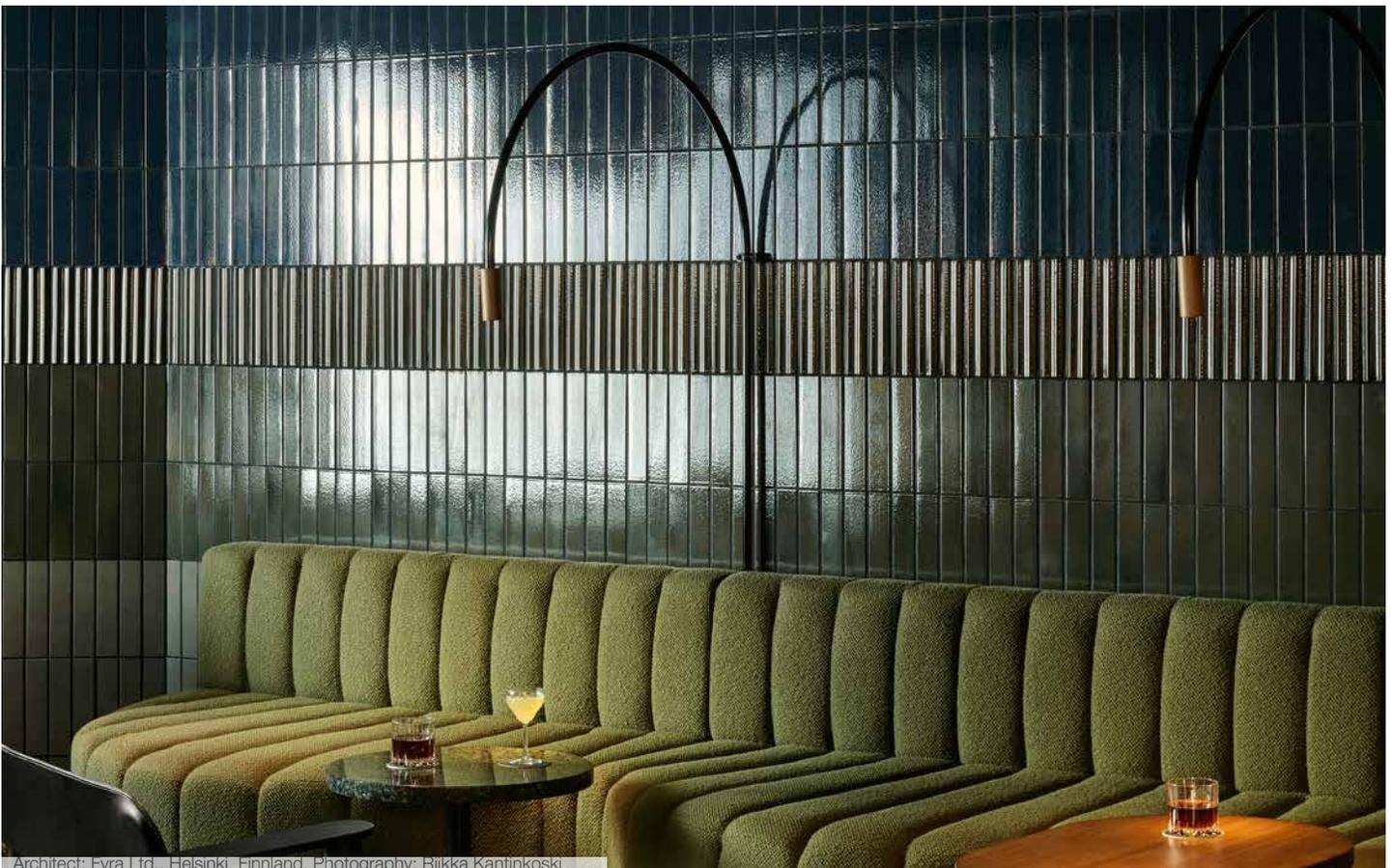
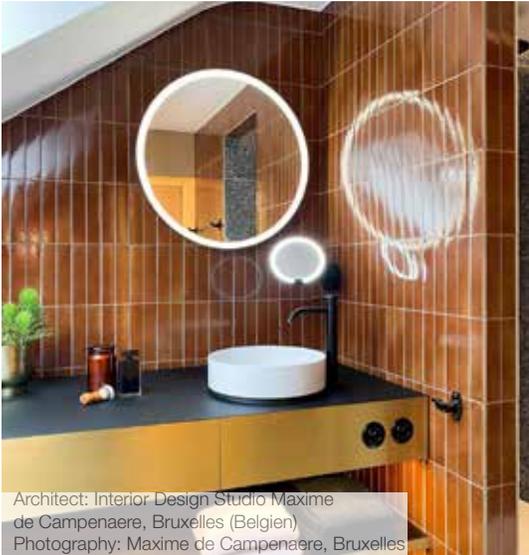
Technical data available upon request.



**CRAFT**

# CRAFT

Craft pays homage to the familiar while exuding a refreshing modernity. Ideal for both indoor and outdoor applications, the series achieves its handcrafted charm through a high-gloss glaze that adds depth and transparency. The interaction of alkaline earths, fluxes, metal oxides, and the clay body during firing results in stunningly vibrant colors and unique surface structures.



# CRAFT

2.5" X 10"



Olive-Green Flamed  
9020-2120



Dark-Grey  
9021-2120



Mid-Grey  
9022-2120



Golden-Yellow Flamed  
9023-2120



Blue-Green Flamed  
9024-2120



Amber Flamed  
9025-2120



White  
9026-2120



Jade-Green  
9030-2120



Beryl-Red  
9031-2120



Benit-Blue  
9032-2120



Hematite-Black  
9033-2120

# CRAFT

<b>Formats</b>	<b>Material</b>	<b>Finish</b>	<b>Applications</b>
2.5" X 10"	Porcelain	Smooth Glossy	» Interior » Exterior » Wall » Wet Areas

<b>Hytect</b>	No
<b>Frost Resistance</b>	Resistant
<b>Submerged Applications</b>	Yes
<b>Color Shade Variation</b>	V1 - Low Variation: W-hite, Medium Grey, Dark-Grey, Jade-Green, Beryl Red, Benit-Blue, Hematite-Black V2 - Medium Variation: Olive-Green Flamed, Amber Flamed V3 - High Variation: Golden-Yellow Flamed
<b>Additional Information</b>	Supplied as double-tiles; to be broken by customer
<b>Availability</b>	Stocked in the USA



**DISTRICT**

# DISTRICT

Embrace the urban and stylish charm of District tiles, as faceted designs take the spotlight in current trends. These beveled tiles are the epitome of elegance, lending a minimalist or stylish touch to kitchens, bathrooms, shops, and living areas, depending on the color and location.

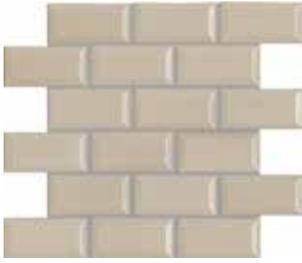


Architect: DPM Gruppe, Kasten, Österreich. Photography: OurPlaceToBe, Linz



# DISTRICT

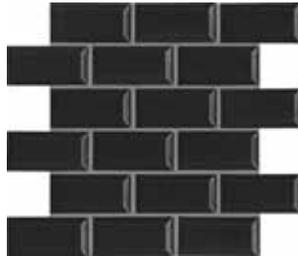
## 2" X 4" Mosaic



Almond Beige  
45550H



White  
45551H



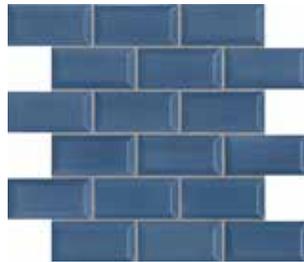
Pitch Black  
45552H



Ash Grey  
45553H



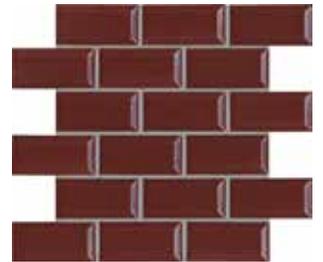
Miami Mint  
45554H



Denim Blue  
45555H



Racing Green  
45556H



Burgundy Red  
45557H

## 4" X 10"



Almond Beige  
45600H



White  
45601H



Pitch Black  
45602H



Ash Grey  
45603H



Miami Mint  
45604H



Denim Blue  
45605H



Racing Green  
45606H



Burgundy Red  
45607H

# DISTRICT

## Formats

2" X 4" Mosaic  
4" X 10"

## Material

Porcelain

## Finish

Smooth Glossy

## Applications

- » Interior
- » Exterior
- » Wall Only
- » Wet Areas
- » Submerged Applications

### Sheet Size

316 X 316 mm

### Hytect

Yes

### Frost Resistance

Resistant

### Chemical Resistance

Resistant

### Submerged Applications

Yes - mosaics are thermoplastically glued

### Color Shade Variation

V0 - No Variation

### Availability

Stocked in the USA

# FRESH



# FRESH

Fresh offers a harmonious range of modern, fresh colors in the popular 1" X 1" and 2" X 2" mosaic format. This year, we are introducing six vibrant and enticing colors to our Fresh stock: Brick Red, Caribbean Blue, Deep Blue, Forest, Silver Grey, and Warm Grey.



Architect: Studio Golwitzer Architekten, München / Planteam Ruhr, Gelsenkirchen. Photography: Jochen Stüber, Hamburg



Architect: Behnisch Architekten, Stuttgart, Deutschland  
Photography: David Matthiessen, Stuttgart



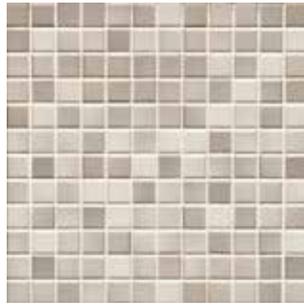
Architect: Hunziker Betatech AG, Winterthur, Schweiz. Photography: Adrian Faragulo

# FRESH

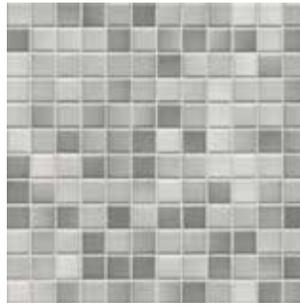
1" X 1" Mosaic Smooth Glossy



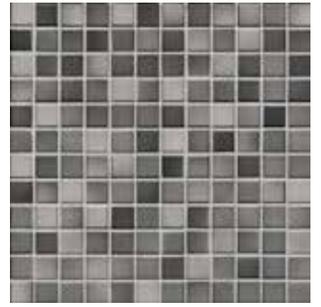
Snow White  
41200H



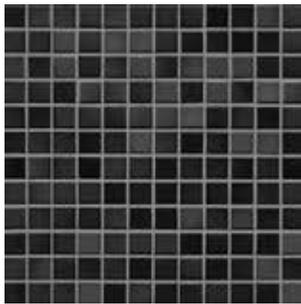
Desert Sand Mix  
41201H



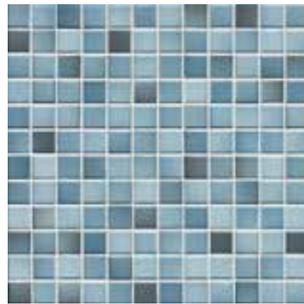
Light Grey Mix  
41203H



Medium Grey Mix  
41204H



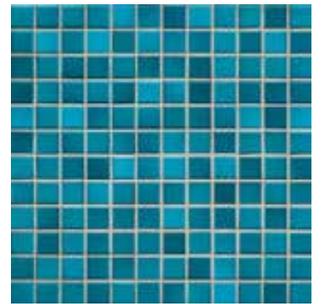
Midnight Black Mix  
41205H



Denim Blue Mix  
41206H



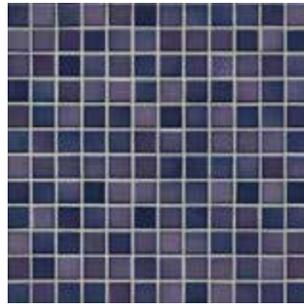
Light Blue Mix  
41207H



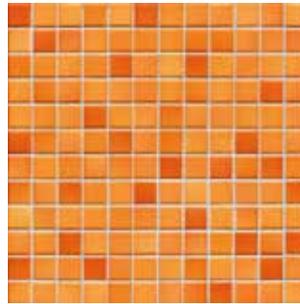
Pacific Blue Mix  
41208H



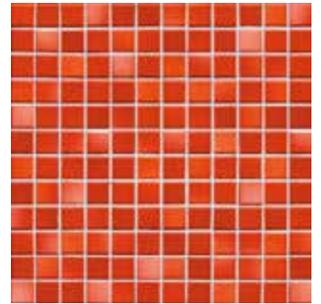
Midnight Blue Mix  
41209H



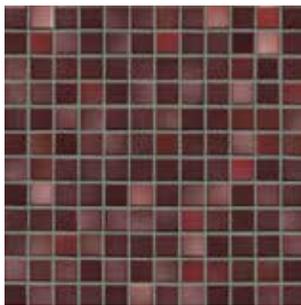
Vivid Violet Mix  
41210H



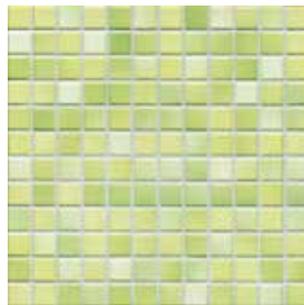
Sunset Orange Mix  
41211H



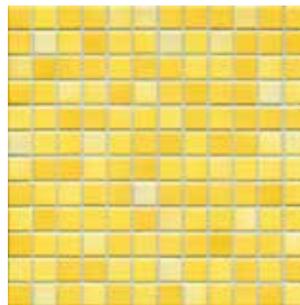
Coral Red Mix  
41212H



Mystic Red Mix  
41213H



Lime Green Mix  
41214H



Sunshine Yellow Mix  
41215H



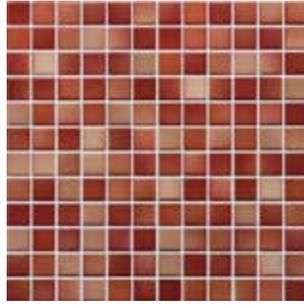
Forest  
41216H

# FRESH

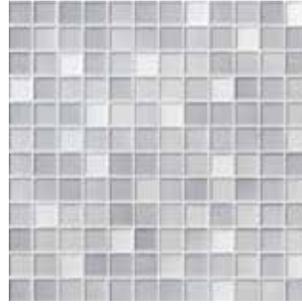
1" X 1" Mosaic Smooth Glossy



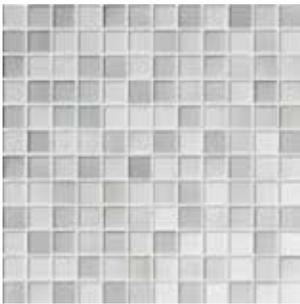
Deep Blue  
41217H



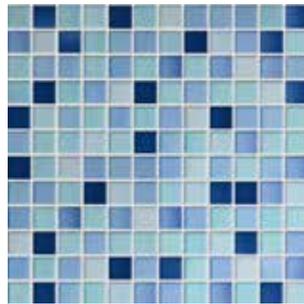
Brick Red  
41218H



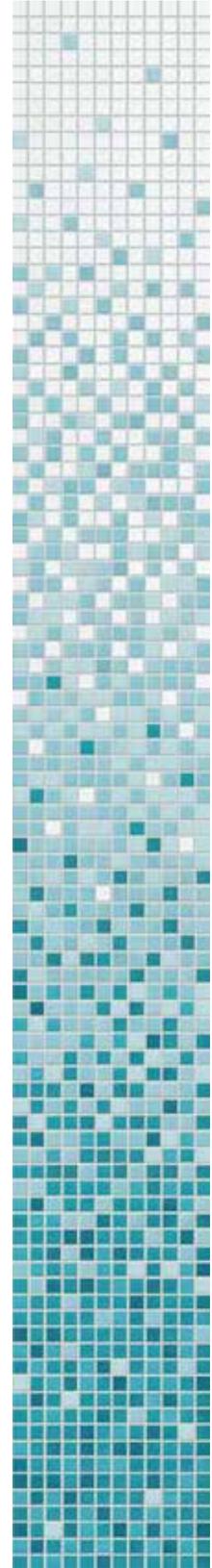
Silver Grey  
41219H



Warm Grey  
41220H



Carribbean Blue  
41222H



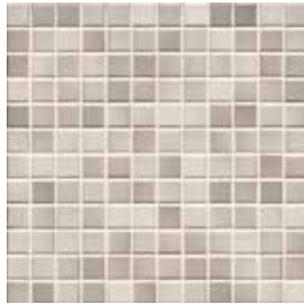
Aqua Gradient  
\*Special Order  
41520H

# FRESH

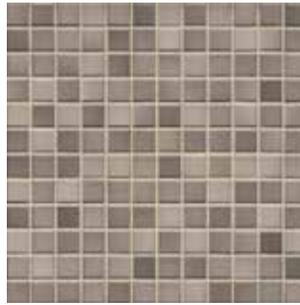
1" X 1" Smooth Matte R10/B



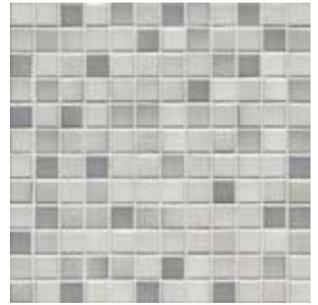
Snow White R10/B  
41300H



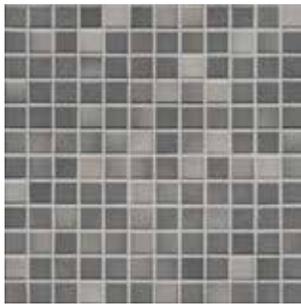
Desert Sand Mix R10/B  
41301H



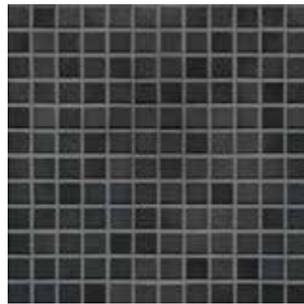
Taupe Mix R10/B  
41302H



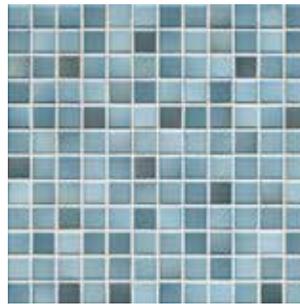
Light Grey Mix R10/B  
41303H



Medium Grey Mix R10/B  
41304H



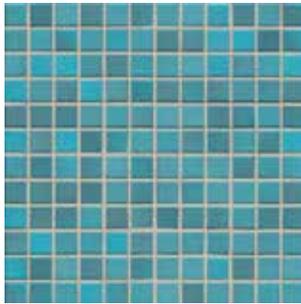
Midnight Black Mix R10/B  
41305H



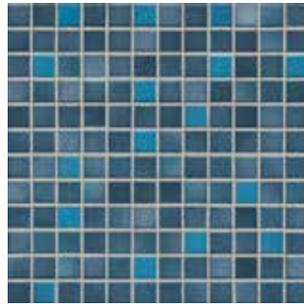
Denim Blue Mix R10/B  
41306H



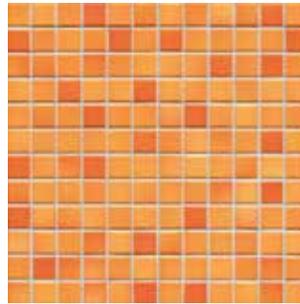
Light Blue Mix R10/B  
41307H



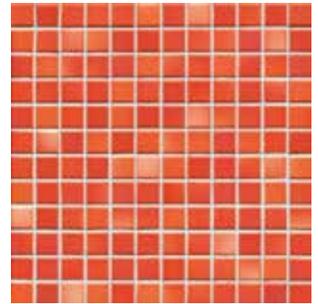
Pacific Blue Mix R10/B  
41308H



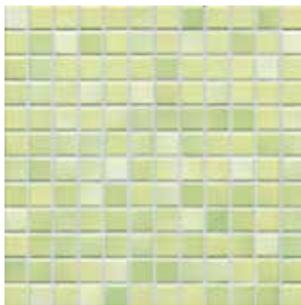
Midnight Blue Mix R10/B  
41309H



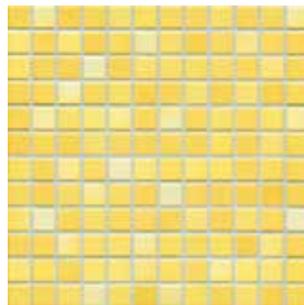
Sunset Orange Mix R10/B  
41311H



Coral Red Mix R10/B  
41312H



Lime Green Mix R10/B  
41314H



Sunshine Yellow Mix R10/B  
41315H



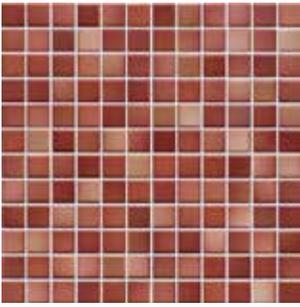
Forest R10/B  
41316H



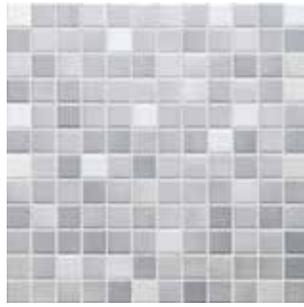
Deep Blue R10/B  
41317H

# FRESH

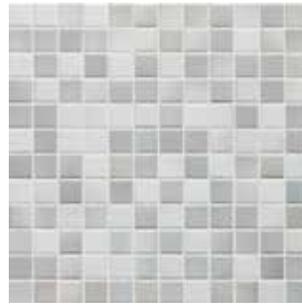
1" X 1" Smooth Matte R10/B



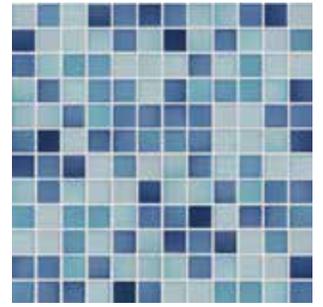
Brick Red R10/B  
41318H



Silver Grey R10/B  
41319H



Warm Grey R10/B  
41320H



Carribbean Blue R10/B  
41322H

# FRESH

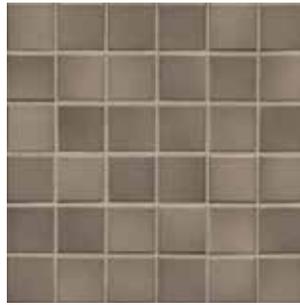
2" X 2" Smooth Matte R10/B



Snow White R10/B  
41400H



Desert Sand Mix R10/B  
41401H



Taupe Mix R10/B  
41402H



Light Grey Mix R10/B  
41403H



Medium Grey Mix R10/B  
41404H



Midnight Black Mix R10/B  
41405H

# FRESH

Formats	Material	Finish	Applications
1" X 1" Mosaic	Porcelain	Smooth Glossy	» Interior » Exterior » Wall » Floor » Commercial Floor » Wet Areas » Submerged Applications
2" X 2" Mosaic		Smooth Matte R10/B	
Specialty Gradient			

<b>Sheet Size</b>	297 X 297 mm
<b>Hytect</b>	Yes
<b>Slip Resistance</b>	R10/B
<b>DCOF</b>	.75
<b>Frost Resistance</b>	Resistant
<b>Chemical Resistance</b>	Resistant
<b>Submerged Applications</b>	Yes - mosaics are thermoplastically glued
<b>Color Shade Variation</b>	V2 - Medium Variation
<b>Availability</b>	Stocked in the USA

Technical data available upon request.



# KARL

an ode to craftsmanship

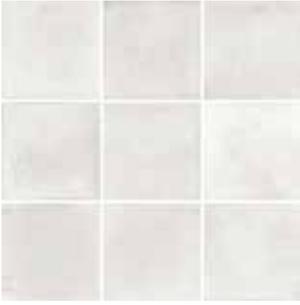
# KARL

Artistry meets nature's charm in the captivating Karl collection of mosaics. With meticulous craftsmanship and natural glazes, these tiles showcase exquisite glaze variations, exuding an authentic and timeless appeal.



# KARL

4" X 4" Mosaic Glossy



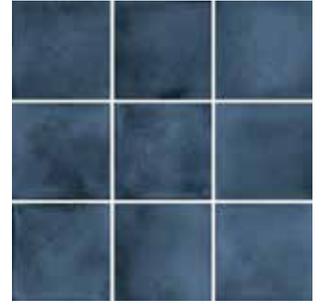
White  
47250H



Nude  
47251H



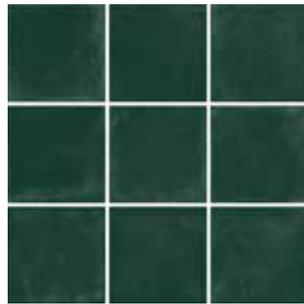
Terra  
47252H



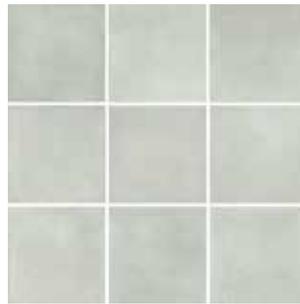
Indigo  
47253H



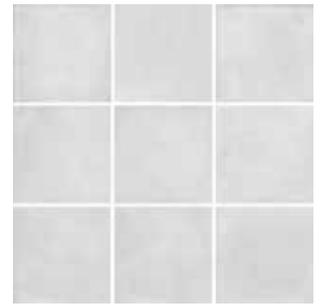
Black  
47254H



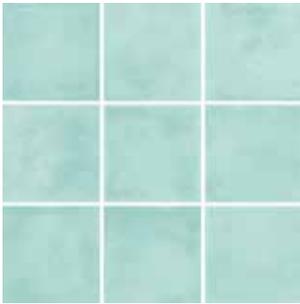
Forest  
47255H



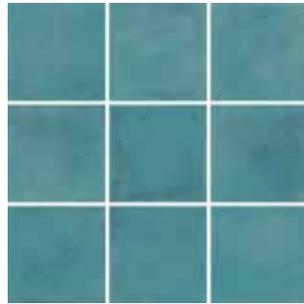
Grey Green  
47256H



Grey  
47257H



Aqua  
47258H



Ocean Blue  
47259H

# KARL

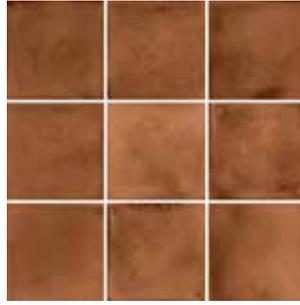
4" X 4" Mosaic Stone Matte R10/B



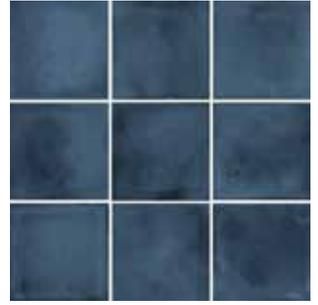
White R10/B  
47275H



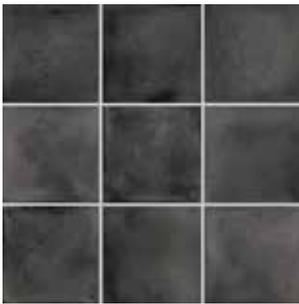
Nude R10/B  
47276H



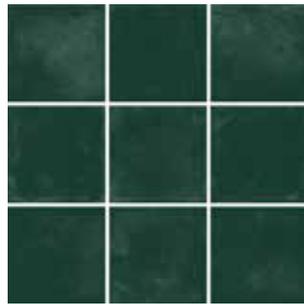
Terra R10/B  
47277H



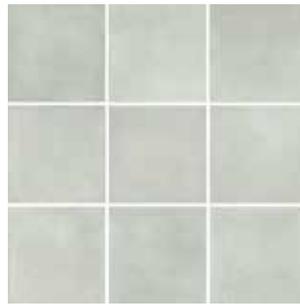
Indigo R10/B  
47278H



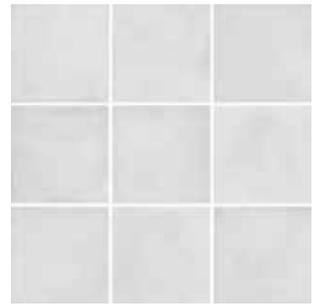
Black R10/B  
47279H



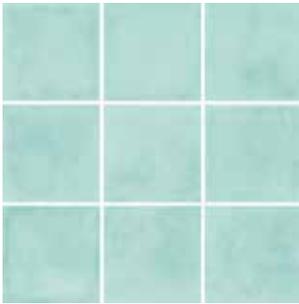
Forest R10/B  
47280H



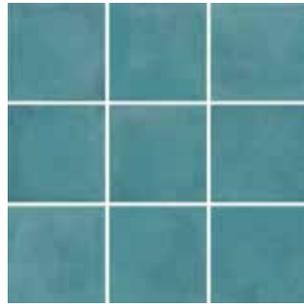
Grey Green R10/B  
47281H



Grey R10/B  
47282H



Aqua R10/B  
47283H



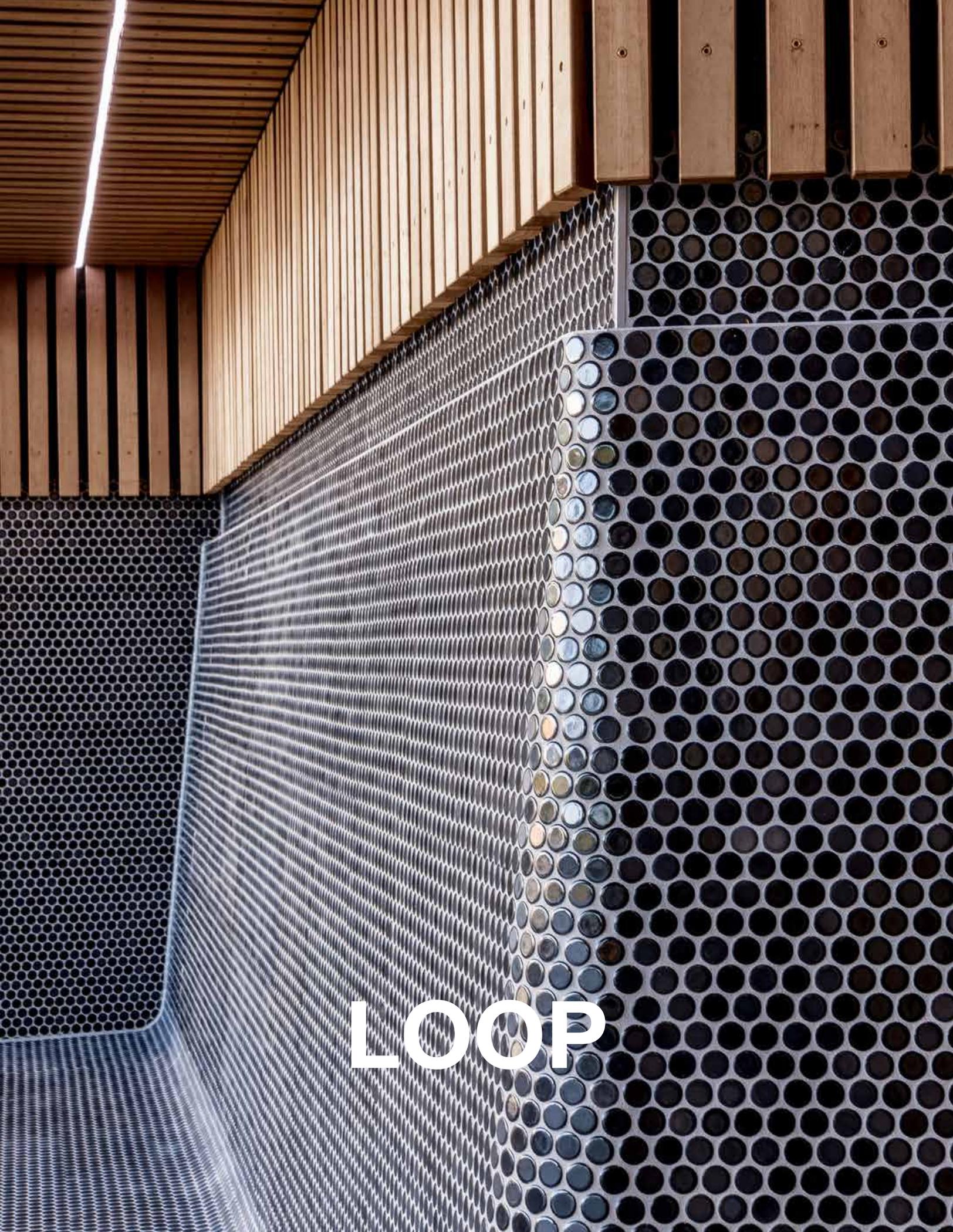
Ocean Blue R10/B  
47284H

# KARL

Formats	Material	Finish	Applications
4" X 4" Mosaic	Porcelain	Glossy Stone Matte R10/B	» Interior » Exterior » Wall » Floor » Wet Areas » Submerged Applications

<b>Sheet Size</b>	297 x 297 mm
<b>Hytect</b>	Yes
<b>Slip Resistance</b>	R10/B
<b>DCOF</b>	
<b>Frost Resistance</b>	Resistant
<b>Chemical Resistance</b>	Resistant
<b>Submerged Applications</b>	Yes - mosaics are thermoplastically glued
<b>Color Shade Variation</b>	V3 - High Variation
<b>Availability</b>	Stocked in the USA

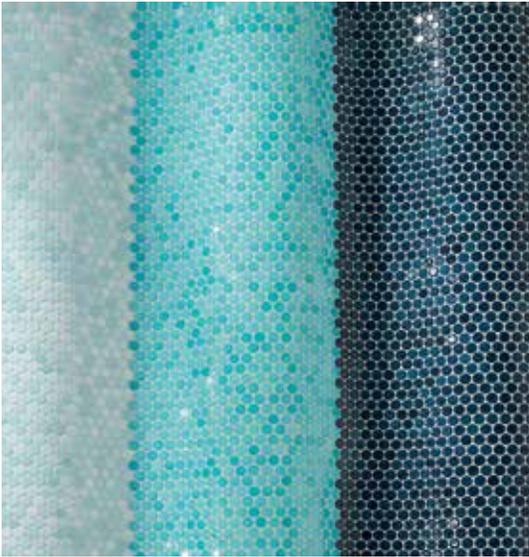
Technical data available upon request.



LOOP

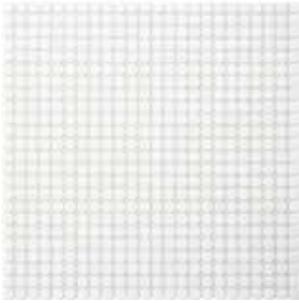
# LOOP

Experience the timeless charm of Loop and transform your space with its unique and eye-catching design. These penny rounds come in a variety of vibrant and neutral color options, allowing you to create a stylish and versatile look that enhances any room.

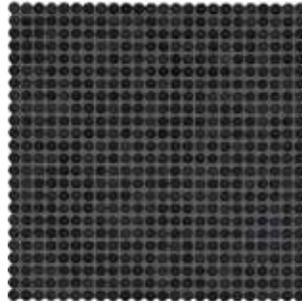


# LOOP

1/2" Smooth Glossy



Arctic White  
40000H



Night Black  
40001H



Light Ivory  
40002H



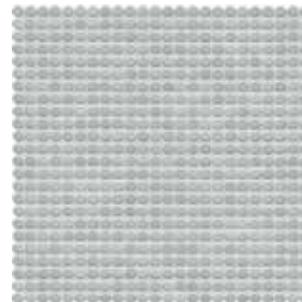
Ivory  
40003H



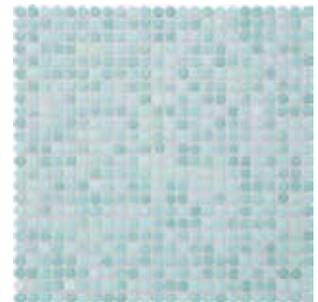
Light Diamond Grey  
40004H



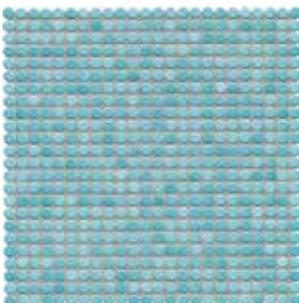
Diamond Grey  
40005H



Denim  
40006H



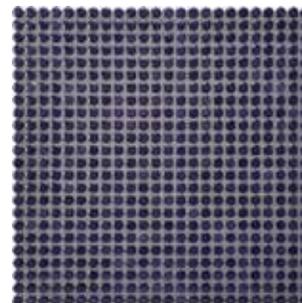
Light Aqua Blue  
40007H



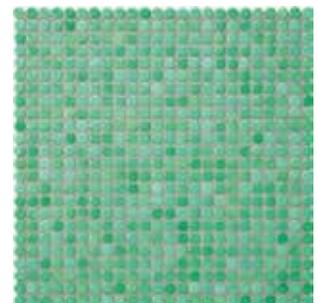
Aqua Blue  
40008H



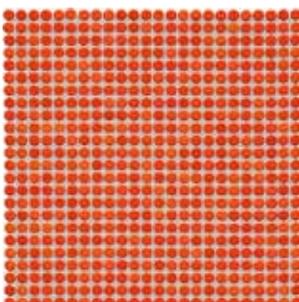
Steel Blue  
40009H



Dark Violet  
40010H



Sea Green  
40011H



Coral Red  
40012H



Lemon Yellow  
40013H

# LOOP

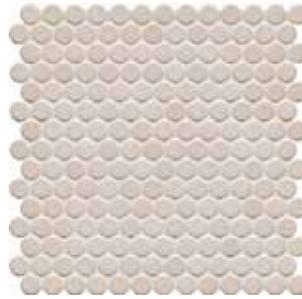
1" Smooth Glossy



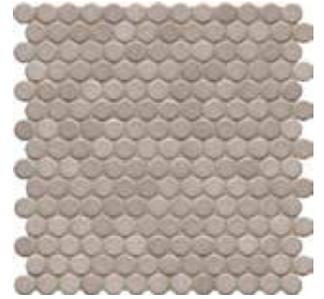
Arctic White  
40020H



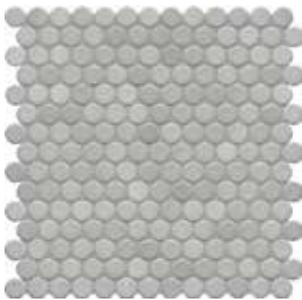
Night Black  
40021H



Light Ivory  
40022H



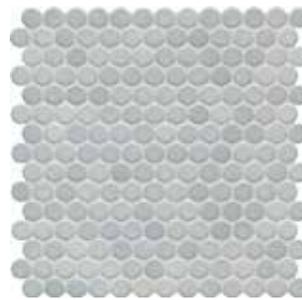
Ivory  
40023H



Light Diamond Grey  
40024H



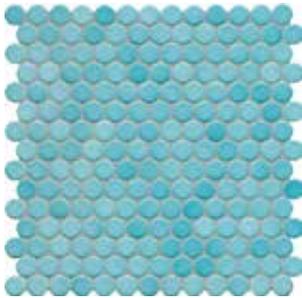
Diamond Grey  
40025H



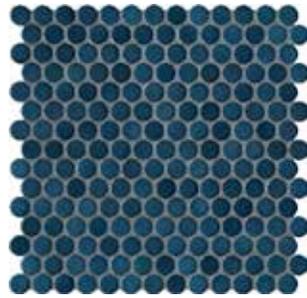
Denim  
40026H



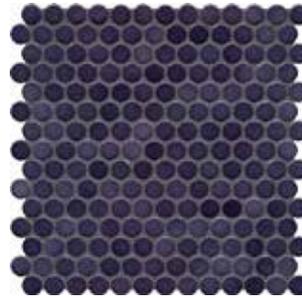
Light Aqua Blue  
40027H



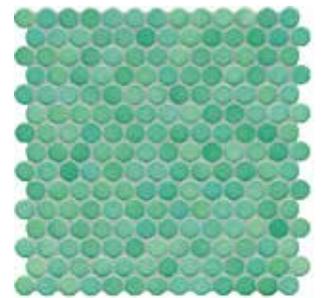
Aqua Blue  
40028H



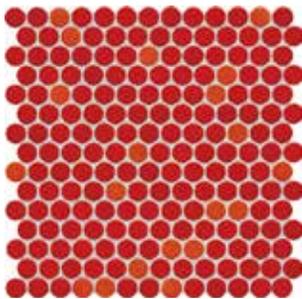
Steel Blue  
40029H



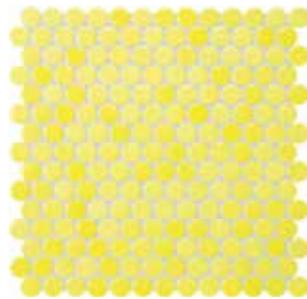
Dark Violet  
40030H



Sea Green  
40031H



Coral Red  
40032H



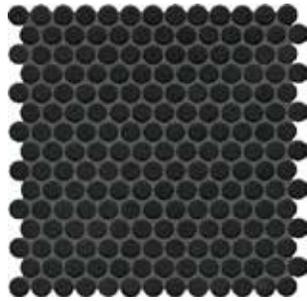
Lemon Yellow  
40033H

# LOOP

1" Smooth Matte R10/B



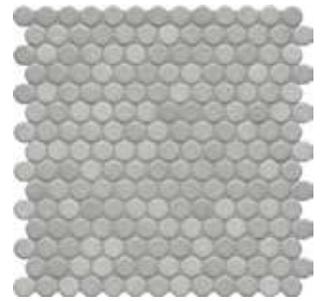
Arctic White R10/B  
40040H



Night Black R10/B  
40041H



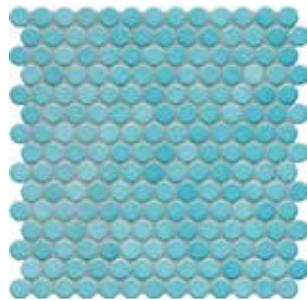
Light Ivory R10/B  
40042H



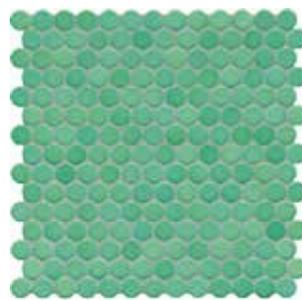
Light Diamond Grey R10/B  
40044H



Light Aqua Blue R10/B  
40047H



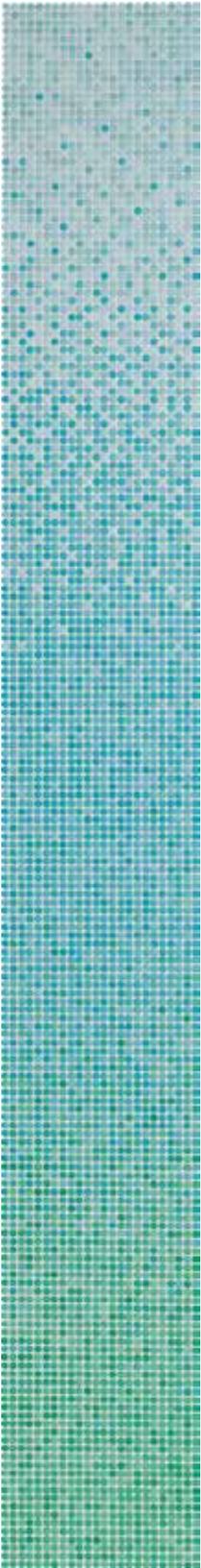
Aqua Blue R10/B  
40048H



Sea Green R10/B  
40071H

# LOOP

Specialty Mosaic Smooth Glossy



1/2" Ocean Gradient  
\*Special Order  
40056H



1" Ocean Gradient  
\*Special Order  
40057H

# LOOP

Formats	Material	Finish	Applications
1/2" Mosaic	Porcelain	Smooth Glossy	» Interior » Exterior » Wall » Floor » Commercial Floor » Wet Areas » Submerged Applications
1" Mosaic		Smooth Matte R10/B	
Specialty Gradient			

<b>Sheet Size</b>	1/2" Mosaic: 316 X 316 mm 1" Mosaic: 326 X 316 mm
<b>Hytect</b>	Yes
<b>Slip Resistance</b>	R10/B
<b>DCOF</b>	.62
<b>Frost Resistance</b>	Resistant
<b>Chemical Resistance</b>	Resistant
<b>Submerged Applications</b>	Yes - mosaics are thermoplastically glued
<b>Color Shade Variation</b>	V2 - Medium Variation
<b>Additional Information</b>	Custom gradients are made-to-order
<b>Availability</b>	Stocked in the USA

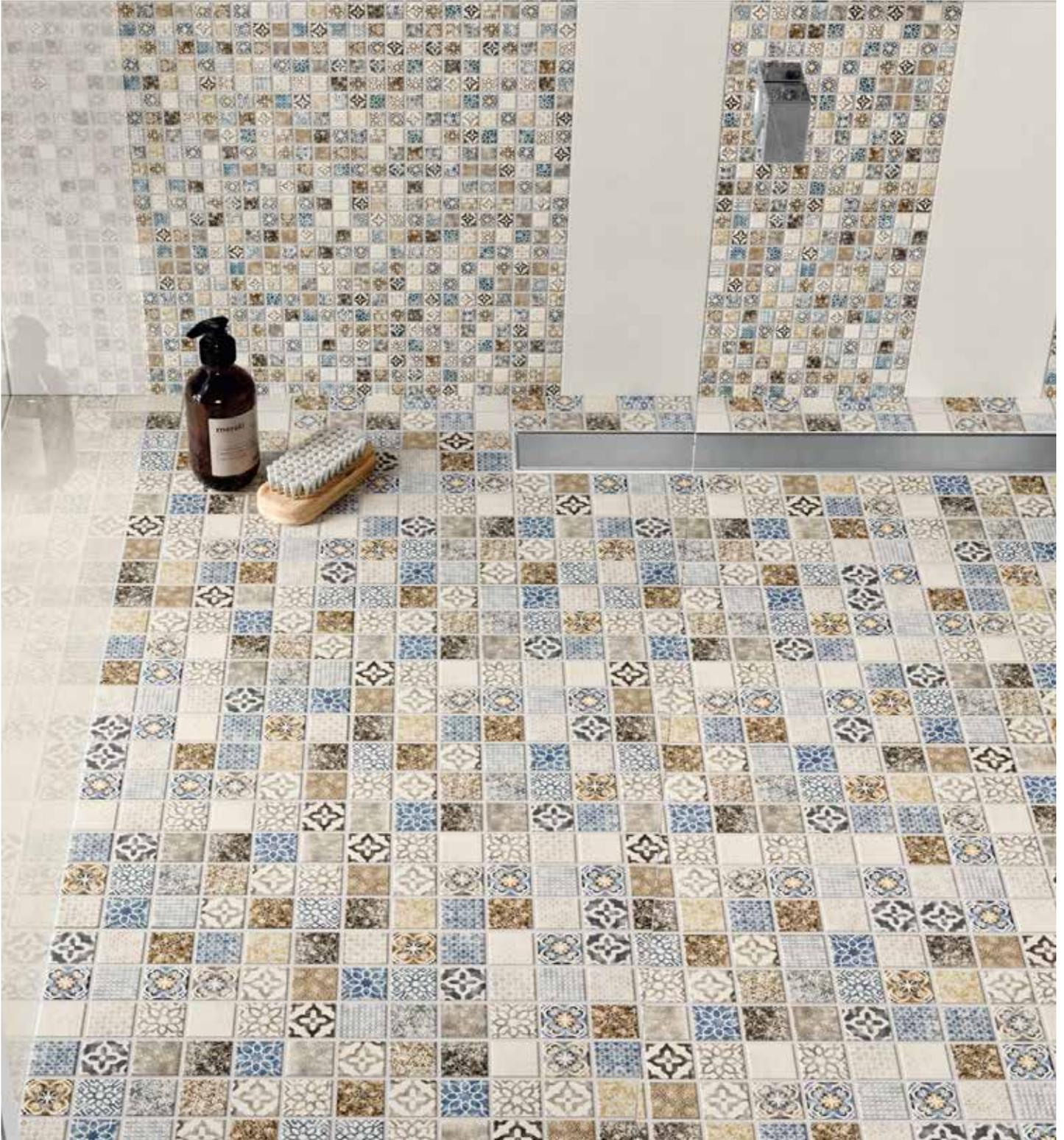
Technical data available upon request.



PATTERN

# PATTERN

Embrace a nostalgic charm with the Pattern series, as it reimagines original ideas and playfully combines motifs both indoors and outdoors. This collection exudes vintage charm and effortlessly integrates into any living style, inviting you to create a space that is truly timeless and captivating.

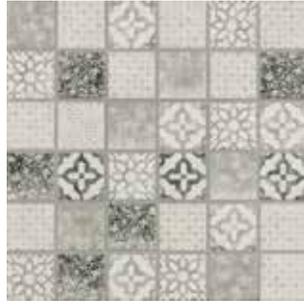


# PATTERN

2" X 2" Mosaic Smooth Silky-Matte R10/B



Vola Multicolor R10/B  
42500H-73



Vola Grey R10/B  
42501H-73

# PATTERN

Formats	Material	Finish	Applications
2" X 2" Mosaic	Porcelain	Smooth Silky-Matte R10/B	<ul style="list-style-type: none"> <li>» Interior</li> <li>» Exterior</li> <li>» Wall</li> <li>» Floor</li> <li>» Commercial Floor</li> <li>» Wet Areas</li> <li>» Submerged Applications</li> </ul>

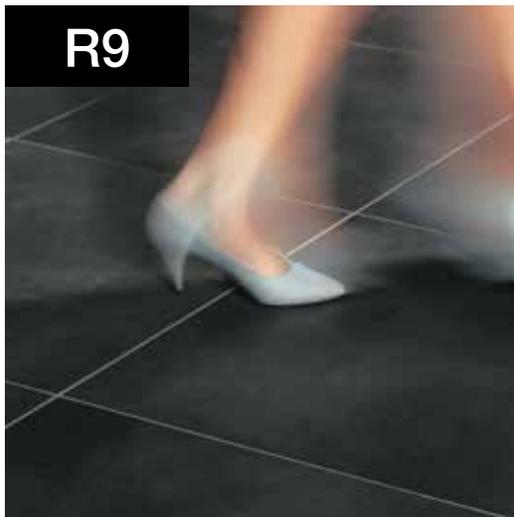
<b>Sheet Size</b>	297 X 297mm
<b>Hytect</b>	Yes
<b>Slip Resistance</b>	R10/B
<b>DCOF</b>	0.42
<b>Frost Resistance</b>	Resistant
<b>Chemical Resistance</b>	Resistant
<b>Submerged Applications</b>	Yes - mosaics are thermoplastically glued
<b>Color Shade Variation</b>	V4 - Strong Variation
<b>Additional Information</b>	Arrangement and packing are random and arbitrary.
<b>Availability</b>	Stocked in the USA

Technical data available upon request.

# SLIP RESISTANCE

Falls caused by slipping, stumbling/twisting, or tripping are the primary cause of accidents in most companies and facilities. Slip-resistant tiles, marked with the GRIP quality seal, are one of our core competences. Since the market launch of the first slip-resistant tiles in the 1930s, we have continuously further developed this innovation due to intensive research.

The results include renowned prizes for exemplary surface designs, functional improvements such as low-noise and vibration-free driving on ceramic coverings as well as micro-rough special glazes for the barefoot areas in swimming pools. The quality of our slip-resistant tiles is guaranteed by permanent controls of the in-house laboratories and supervised at regular intervals by neutral external institutes, as well as the participation in interlaboratory tests with accredited test laboratories.



# SLIP RESISTANCE

## Slip Resistance

1. Coefficient of Friction/Slip Resistance  
Workshop rules as well as accident prevention regulations require floors to be smooth, slip-resistant and easy to clean. Special protective measures against slipping are necessary where there is a risk as a result of the use of water, oil, slush, grease or waste. This should be taken into consideration when choosing the surface material. This clear requirement is based on investigations carried out by the insurance companies, which proved that slipping is the primary cause of accidents.

### Test on “inclined plane”

Valuation groups	Angle of Inclination	Industrial & Commercial Areas
R9	>6°-10° low static friction	
R10	>10°-19° normal static friction	
R11	>19°-27° increased static friction	
R12	>27°-35° high static friction	
R13	>35° very high static friction	

The indicated angles of inclination exclusively serve for the assignment of the valuation groups and can not be equated with the angles of inclination of slopes/ramps.

## 1.1. Industrial Areas

Competent authority:

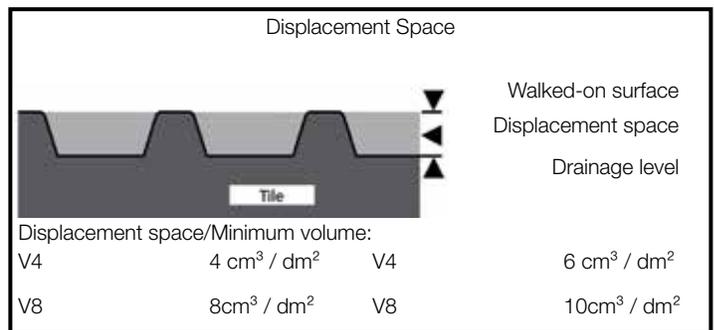
Deutsche Gesetzliche Unfallversicherung,  
Mittelstraße 51, 10117 Berlin -Mitte, tel.: +49 (0)30 28876-3800,

fax: - 3808, www.dguv.de, info@dguv.de

Test standard: DIN 51130

Code of practice: DGUV regulation 108-003

“Floors in work rooms and work areas with high risk of slipping” (previous BGR 181) Test procedure: Inclined plane, safety footwear worn, test medium oil. The surface finish can be smooth, fine-rough, rough or profiled.



The displacement space (v4-v10) is the open space between the upper walked-on surface and the drainage level of profiled surfaces.

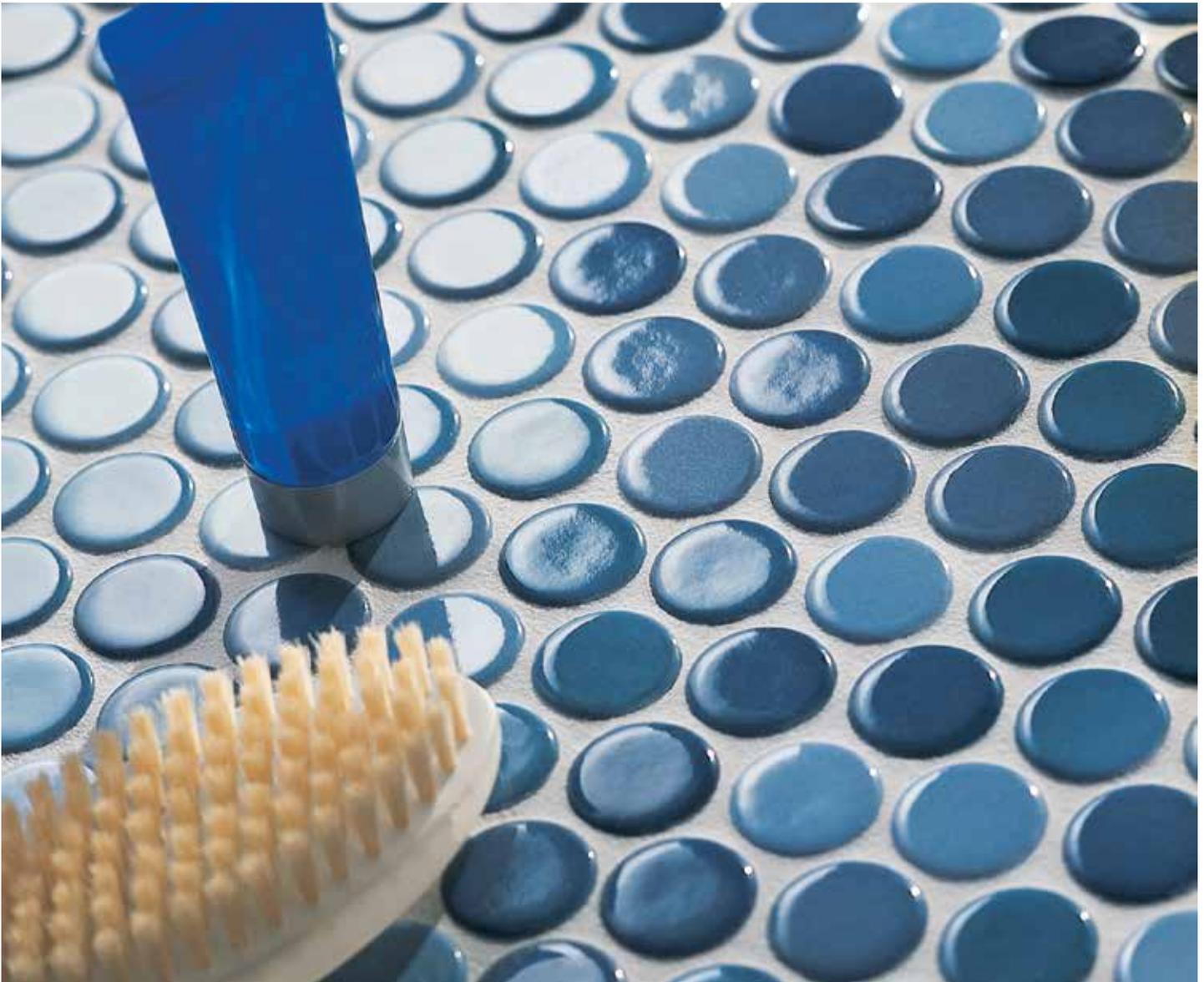
# CARE AND MAINTENANCE

Regular cleaning of ceramic and porcelain tiles will be required at different intervals depending on the degree of soiling and utilization of the tile: weekly, daily, or several times a day in very heavily frequented areas. In general, it is sufficient to use warm water with commercially available cleaners (neutral pH and non-detergent) for regular cleaning. Cleaned areas should be rinsed thoroughly to avoid leaving any residue.

In the case of calcium and rust stains, scouring powder should be tried first. Be sure to rinse thoroughly before trying other cleaners. If this is unsuccessful, an acid cleaning with sulfamic acid must be used. Be sure to follow manufacturer's instructions.

Tar, paint, and resins are best removed with organic solvents such as naphtha or acetone. Be sure to use these solvents in a well-ventilated area. Caution: Solvents of this type are highly combustible!

The use of surface or penetrating sealers is not recommended on glazed ceramic or porcelain tiles. Use of such sealers will result in the appearance of traffic patterns in the floor where the sealer is wearing off.



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