

# MICRO CEMENT

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*Coatings with petrous beauty*

CEMHER®

*“Architecture is not four walls and a roof, it is the space  
and the spirit generated within”*

*Lao Tsé.*

### *What does a place need to have spirit?*

When a space is being created, it feels lifeless and empty. It needs that ‘something’ to become whole. To have a soul and stand out, making one feel embraced by its elements.

A decorative coating, such as microcement, represents the same for a space, as the foundations for a building: the beginning! The beginning of a space that expresses, welcomes, excites, that has life.

**Cemher® is exactly this, it is THE ORIGIN.**

It is the origin of idyllic places, yet to be created. The whole universe that comprises the brand is the perfect synergy to start creating spaces.

**And Cemher® is your ally.**

*Petrous Beauty*



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# WHAT IS MICROCEMENT?

*A coating to create unique spaces*

Microcement is a decorative coating with the **appearance of natural stone**. A material capable of transmitting sensations incomparable to any other overlay. Its versatility enhances the aesthetics of floors and walls, indoors and outdoors, kitchen fronts, showers, swimming pools and an endless number of environments to which it provides **naturalness, elegance and exclusivity**.

**The realism of its petrous beauty stands out.**

Cemher® is inspired by the purest nature to create microcement and achieve its unique stone design. Thus, this is the main raison d'être and essence of our brand: "the origin".

Since 1940, we have been recalling in our work the role of nature in the origin of life. The times when the rock formations, the same ones that supply us today, were the witnesses of the evolution of the first men.

That was the origin of life and Cemher®, with its microcement, manages to extrapolate it to the modern interior design. We make it possible to feel the origin of life in your own home. Microcement brings nature to the surrounding environment.



*How is microcement different from other coatings?*

**Cemher®** microcement is composed of high quality minerals, cements, resins, additives and mineral pigments.

**Use:** it can be applied on both vertical and horizontal surfaces, thanks to its high adhesion. As well as in wet areas such as bathrooms or swimming pools.

**Main advantage:** it can be laid over existing material (tiles, plasterboard, marble, terrazzo, concrete...) without the need to remove the previous flooring or coating. This is possible thanks to the minimum thickness of the system (3mm). A room can be renovated with hardly any work or debris.

**Truly different from the rest:** if there is something that differentiates microcement from other alternatives, it is the absence of joints. Forget the unsightly joints of porcelain tile and floating flooring. Microcement is a continuous coating, which gives rooms ...a unique feeling of endless spaciousness.

**It blends in perfectly with its surroundings,** without detracting from the decoration that complements it.

*"Open your senses so you don't miss anything around you"*

*Pablo Picasso*



## BEST RAW MATERIAL

*Made in Spain*

In **Cemher®** we select the best quarries in Spain to obtain the purest minerals. More than 80 years of experience allow us to know the best raw materials; and thanks to this, we can offer the highest quality products in the market.

*Pioneers in*

## MICROCEMENT MANUFACTURING

Cemher® is a reality thanks to **our experience in the chemical sector** and our long-standing activity as manufacturers and suppliers of other microcement companies that market it under their own brand name.

This background allows us today to innovate and launch microcements with unique properties, without competitors in the market, capable of solving any architectural problem. Improvement and innovative spirit are two of the components of our essence that best define us.



## PERSONALIZED ADVICE

*Multidisciplinary Team*

We have a multidisciplinary and specialized team capable of advising and guiding the customer in the choice of microcement, according to the needs of every project.

Giving the right advice is paramount for us, since the success of the work depends largely on **the choice of microcement** or the appropriate system.

# GET INSPIRED

*Petrous designs that create unique spaces*



*Imagine your project*

# INDOORS AND OUTDOORS

An innovative coating that finds its place everywhere: on walls, on floors, bathrooms, terraces, floor-level showers, commercial areas... Depending on the interior or exterior area where it is going to be applied, it will be necessary to use one Cemher® microcement or another, to achieve the best results. **Its impermeability turns the Cemher® microcements into allies of water and humid areas.** Its anti-slip properties avoid risks, making it the ideal pavement for swimming pools, shower floors or spas.



*Industrial Collection  
Ethereal*

*Waterproof*

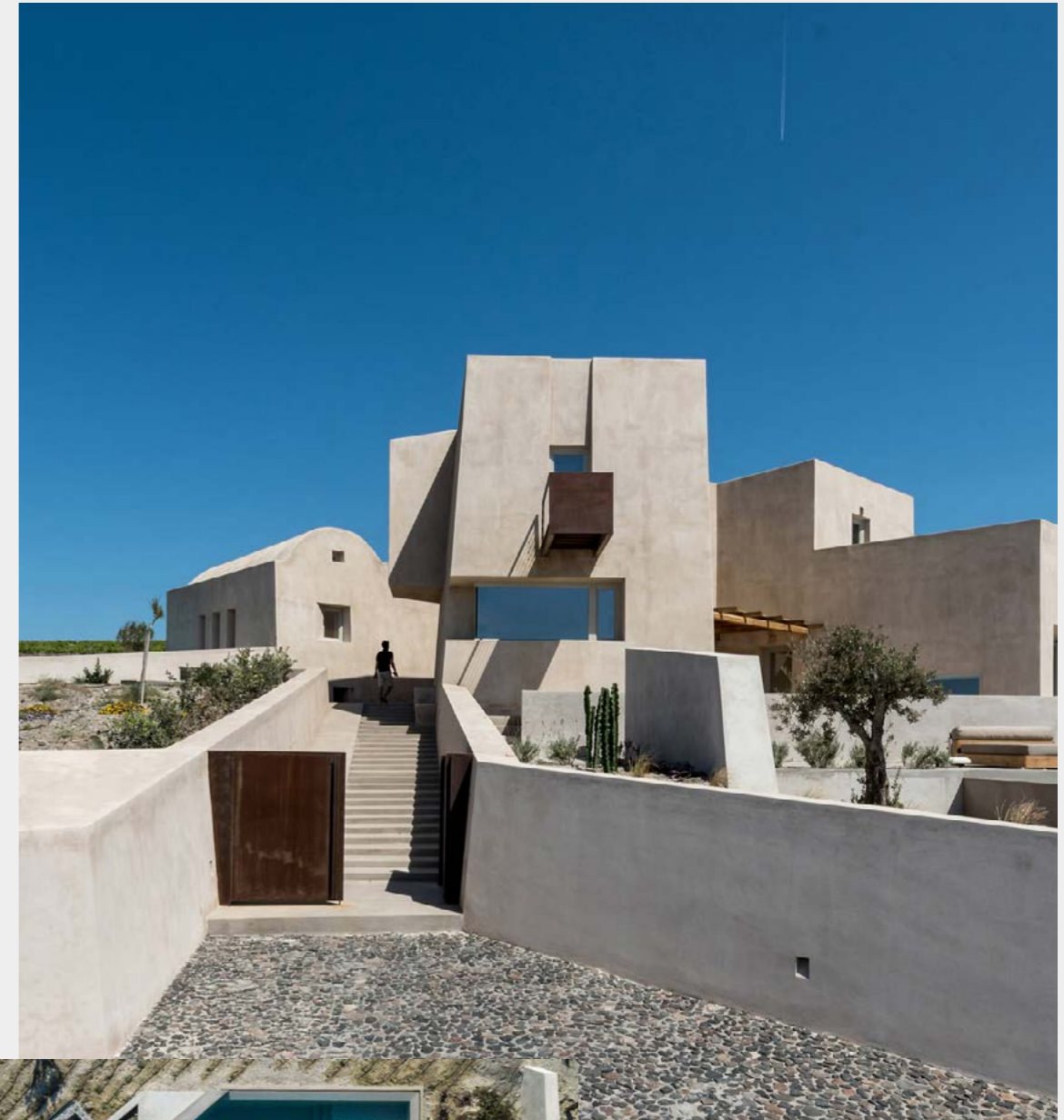






*UV resistant*

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*Non-slip*

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# MAXIMUM RESISTANCE

Its physical-chemical characteristics give it high resistance to impacts and corrosion caused by external chemical agents. Thanks to its high elasticity, it prevents the appearance of unsightly cracks and fissures. **Cemher® micro-cements** do not require special maintenance, **are resistant to chemicals and stains**, which facilitates cleaning and maintenance.



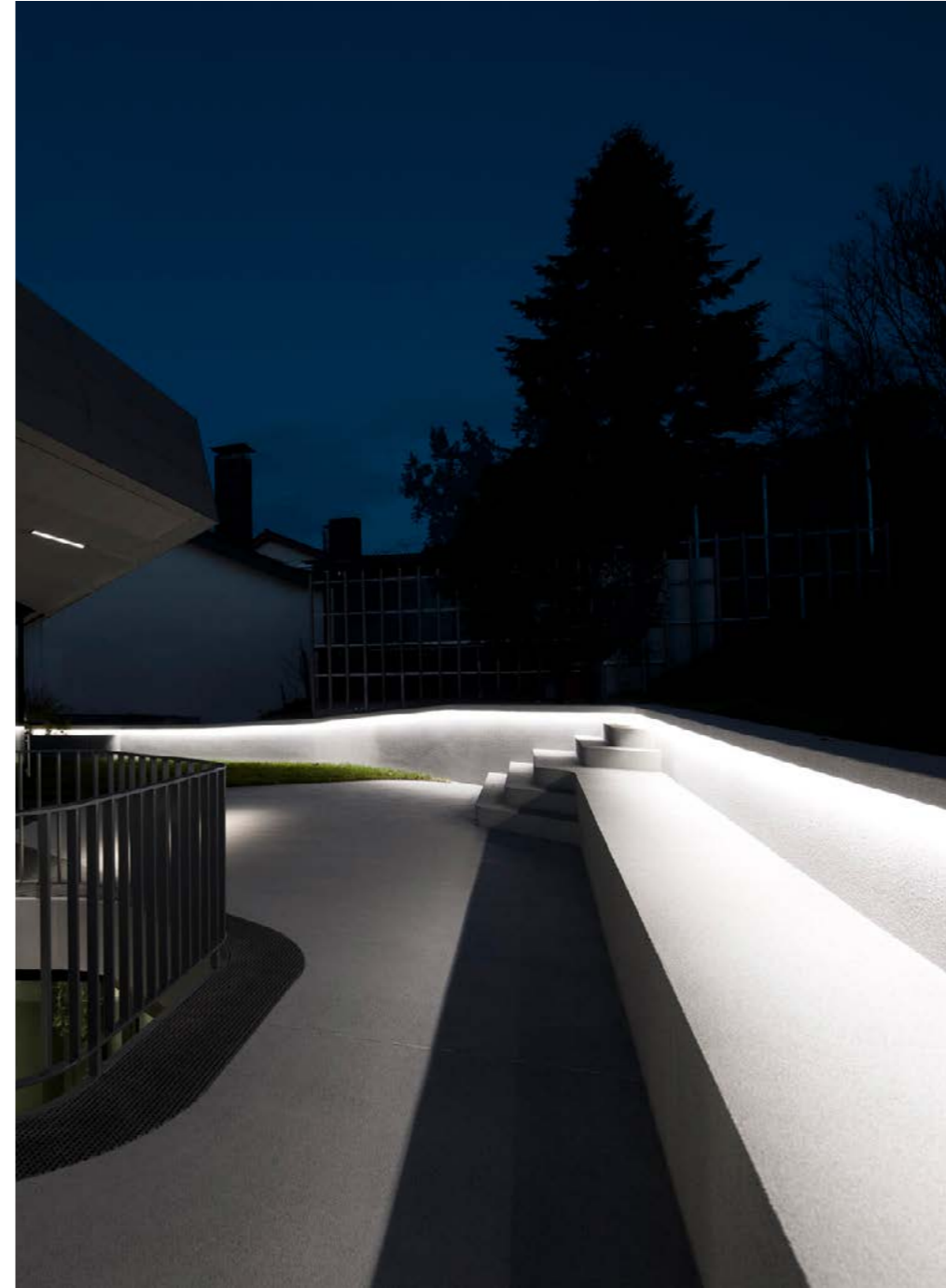
*Natural Collection  
Balasto*



*Easy cleaning and  
abrasion resistance*



*Resistant to fire  
and high temperatures*



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*Frost and  
freeze resistant*

*Ols House*

*2013. Stuttgart, Germany  
J. MAYER H.*



*Industrial Collection  
Ethereal*



*Hotel Forestis Dolomites  
2020. Brixen, Bressanone, Italy  
Asaggio GmbH*





*Natural Collection  
Traditional*



*Summer residence  
in Imerovigli II*

*2020. Imerovigli, Greece  
Kapsimalis Architects*

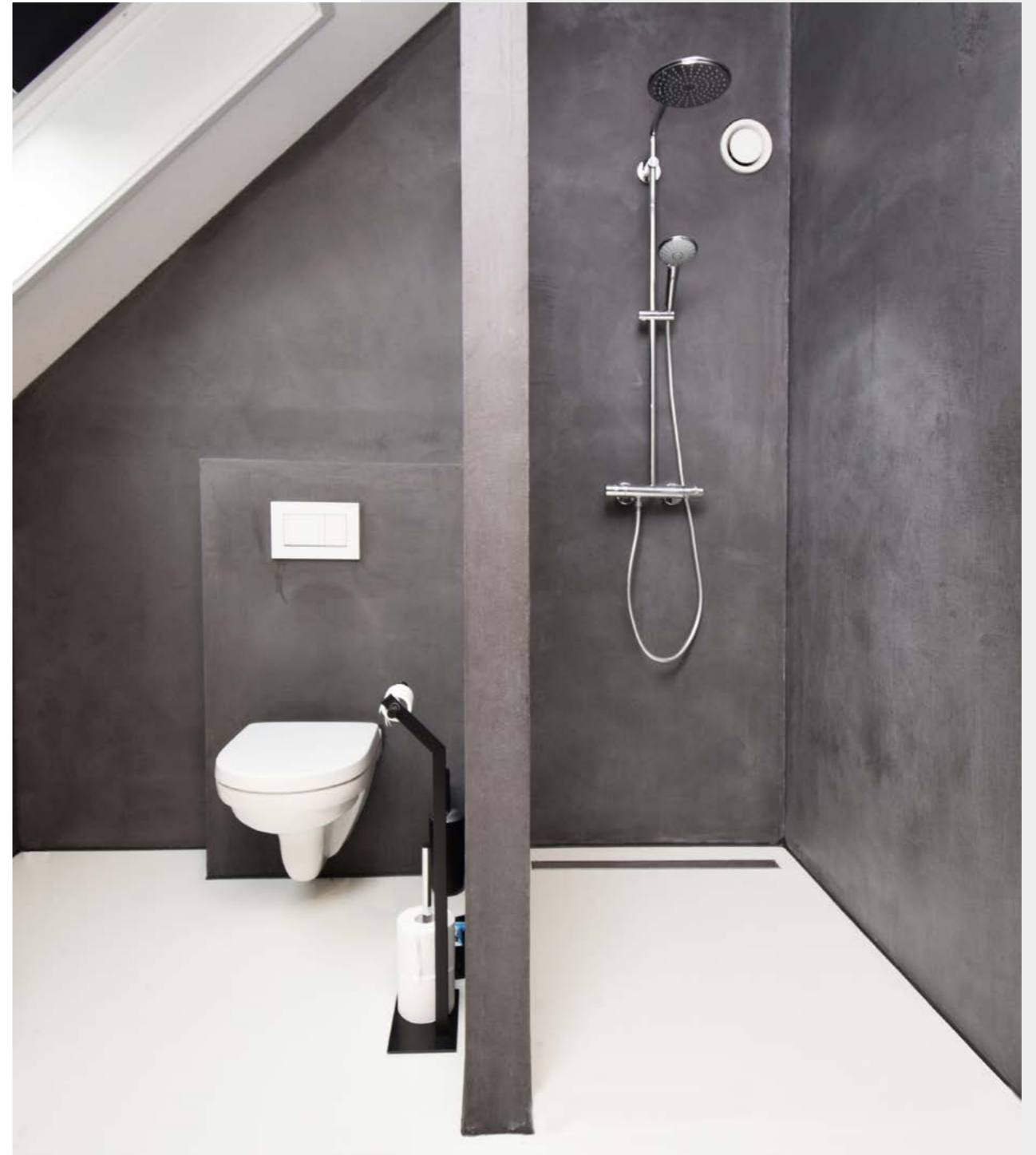




*Stain and  
chemical resistance*

*Bathroom. Private house*

*2021. Netherlands  
Plastermade*



*Natural Collection  
Granza*



Natural Collection  
Traditional

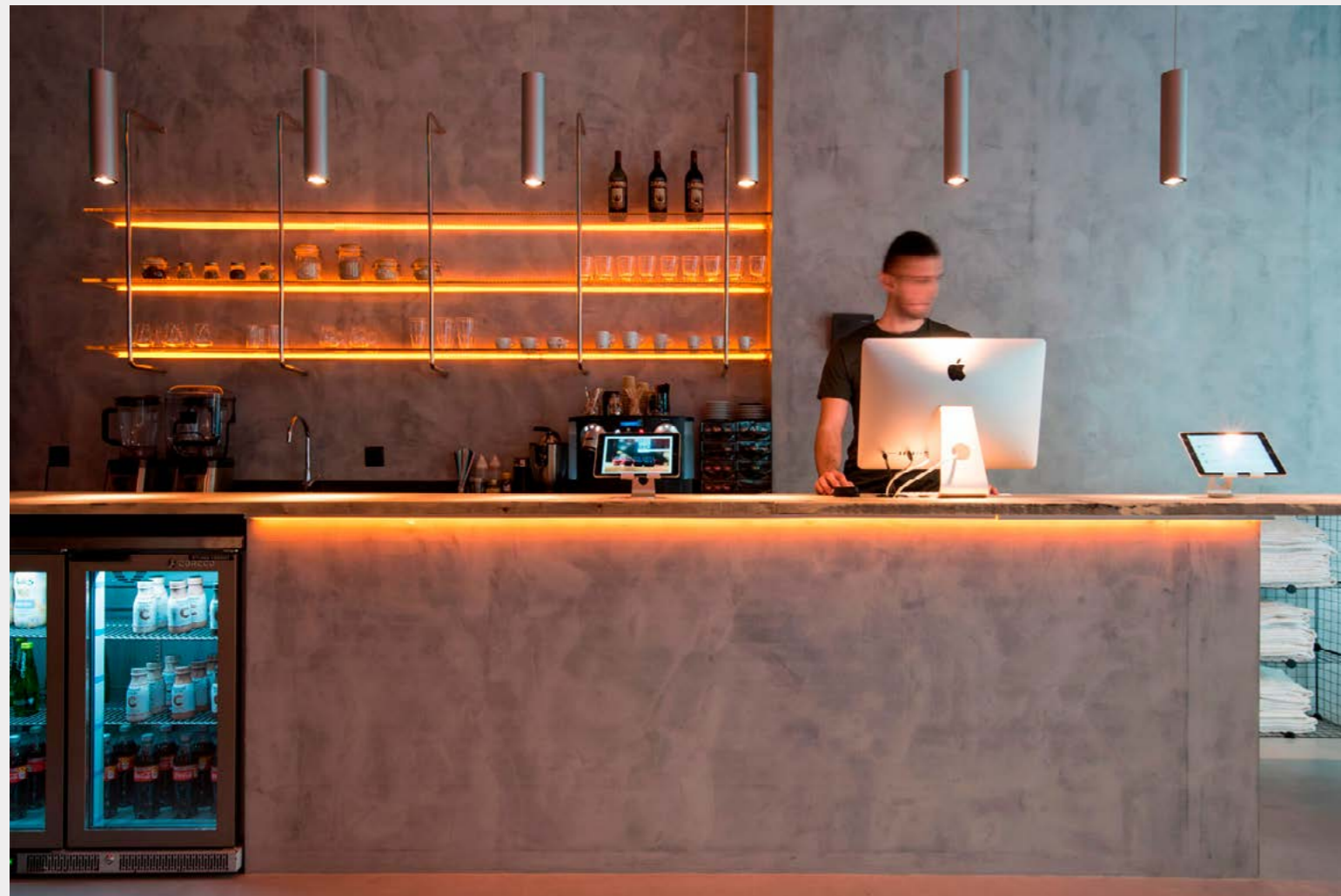
# BOUNDLESS BEAUTY

Cemher® microcements offer endless aesthetic possibilities thanks to the wide variety of colors, textures and decorative finishes. **Turn the simplest rooms into unique spaces**, adapted to your tastes and needs, thanks to the maximum freedom when designing.

*Gym SquareFitness*

*2016. Madrid, Spain  
Estudio B76*

Its high adhesion makes it possible to cover any piece of furniture of any material, including glass. It brings beauty and gives a unique mineral appearance that coexists in harmony with any material. Everything that is in your imagination can be transformed into reality with Cemher®.



# CONTINUOUS EFFECT

Continuity is one of the most outstanding characteristics of microcement. As it does not require joints in its application, it creates a continuous effect, and thanks to this, a **greater sense of spaciousness**.

In addition, the absence of joints prevents the proliferation of bacteria and fungi, resulting in less dirt and easier cleaning.

*Industrial Collection  
Ethereal*



*Private Residence  
2022. Kunming, China  
Ermu Construcción*

*Maximum integration  
between the different  
spaces*







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*Scratch and  
impact resistant*

*Natural Collection  
Petra*





## DEBRIS FREE

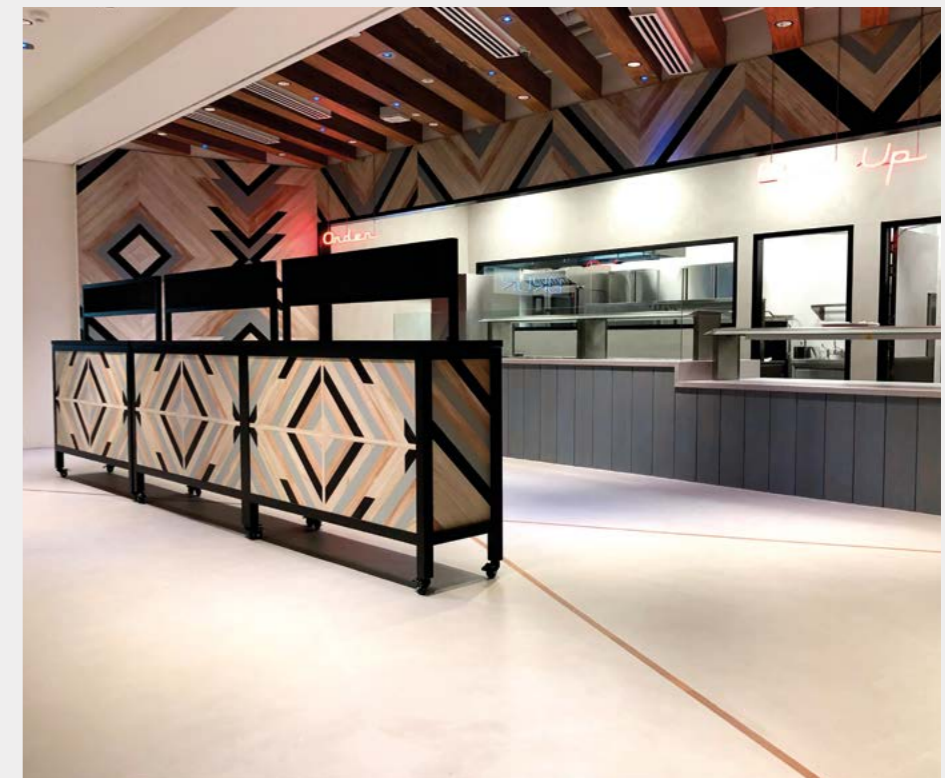
Our microcement system has a thickness of 3mm. This minimum thickness allows the coating of walls and floors possible, without removing old layers and therefore, keeping it clean and fast.

It has a high adhesion to any other material or surface, whether smooth or rough. It should also be noted that its reduced thickness makes it compatible with underfloor heating systems.



*Google Headquarters  
MCB II*

*2019. Singapur  
Waldec Coatings*



*Industrial Collection  
Ethereal*





*Industrial Collection  
Uzino*



*Natural Collection  
Balasto*



| *Hygienic*



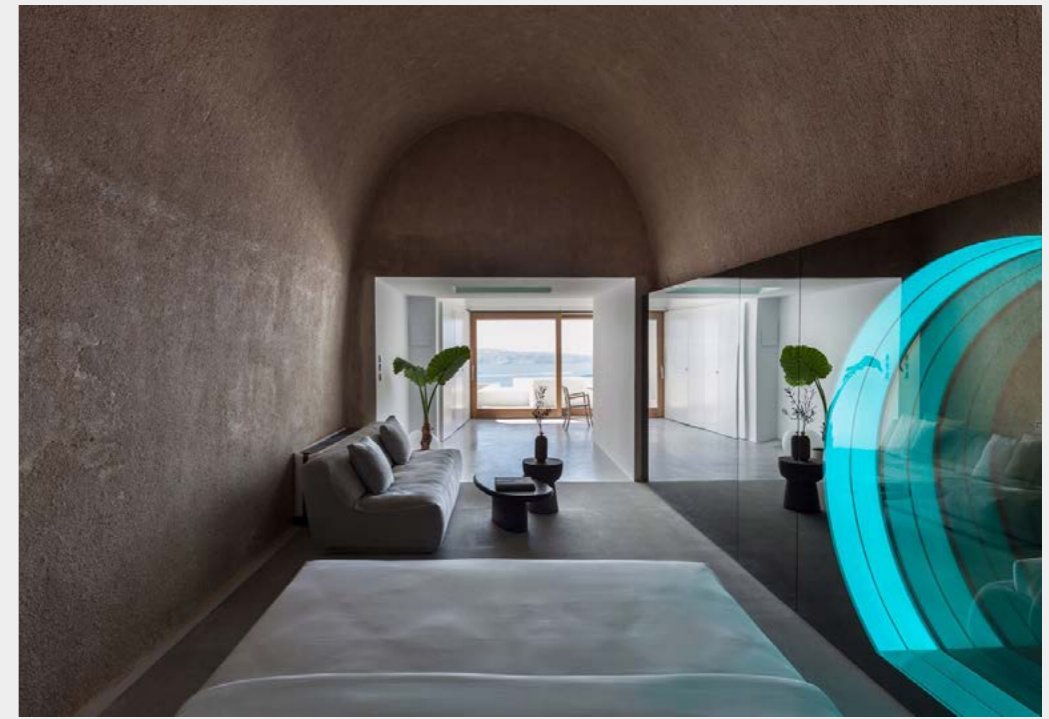
*Summer residence in Imerovigli II*

*2018. Imerovigli, Greece  
Kapsimalis Architects*





*Industrial Collection  
Uzino*



*Firostefani House*

*2017. Thira, Greece  
Kapsimalis Architects*



*Natural Collection  
Vulcano*



*Industrial Collection  
Ethereal*



*Industrial Collection  
Uzino*





*Mango Stores*

*2019. Spain*



*Natural Collection  
Granza*





*Los Olivos House*

*2019. Mallorca, Spain  
Mar Plus Ask*



*Industrial Collection  
Uzino*







*YINNO UNICO  
Boutique Store*

*2022. Hangzhou  
MMC DESIGN*



*Natural Collection  
Petra*



# INFINITE POSSIBILITIES



## COUNTERTOPS

One of the main advantages of microcement countertops is their fireproof properties. They are able to withstand temperatures of up to 200°C. Furthermore, it is easy to clean, which is essential in a highly used area.

## SINKS AND WASHBASINS

The impermeability of Cemher® microcements makes it the ideal material for creating custom-made kitchen sinks or washbasins.



## BATHTUBS AND SHOWERS

Whether in bathtubs or floor-level showers, the continuous effect in bathrooms creates a unique feeling of comfort.

It also conveys a feeling of more space, making it ideal for small rooms.



## TABLES

The possibility of using microcement to create unique and special design pieces.

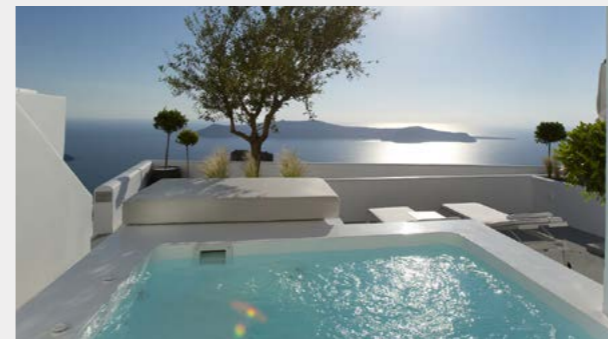


## FURNITURE

Our microcement can create unique furniture and give a special warmth to your decor.

## SPAS

Microcement emulates the effect of natural stone (in shades of your choice) with a soft, non-slip feel, it's also waterproof.



## POOLS

Microcement pools adapt to any space and create continuity in the design.

## PLANTERS

Microcement adapts easily to any space and type of surface, making it an ideal material for covering small spaces.



# CREATE YOUR SPACE

*Let's shape your ideas*



*Guide of use*

## ONE NEED, DIFFERENT SOLUTIONS

Everything you need to know before starting your project with Cemher®.

Our **microcement collections** highlight the desire to create spaces with soul that stand out from the rest.

# 1/ COLLECTION

We have created 2 very different collections  
Which one is yours?

## NATURAL COLLECTION

Its natural beauty is only comparable to that of the landscapes that inspire it. The visual richness of its nuances makes it the ideal collection for those spaces that require a **warm and comfortable atmosphere**.

Its finish will **remind you of natural stone**. This collection is executed in the image and likeness of the original nature.

**Welcome to warm minimalism!**



Natural Collection



Industrial Collection

## INDUSTRIAL COLLECTION

The peculiarities of this collection reflect an **industrial aesthetic**, but not an aseptic one. A more neutral air when compared to the natural collection. Able to create minimalist environments where **simplicity and neutrality prevail**. This collection is inspired by absolute purity.

**The traditional minimalism!**

# 2/ FINISHES

Once the collection is chosen, it is time to decide on the finishes

Natural Collection 5 different finishes:

**G1** TRADITIONAL  
Granulometry: ultra fine

**G2** BALASTO  
Granulometry: fine

**G3** PETRA  
Granulometry: medium

**G4** GRANZA  
Granulometry: coarse

**G5** VULCANO  
Granulometry: ultra coarse

Industrial Collection 2 different finishes:

**G1** ETHEREAL  
Granulometry: ultra fine

**G1** UZINO  
Granulometry: ultra fine

Once you have chosen the finish, you can choose the color and type of gloss.

# 3/ TECHNICAL SOLUTION

Solutions for each project

You already have a clear idea of the collection and the desired finish. Now it's time to discover the technical solutions we offer you:

- MINERAL
- MINERAL + FLEX
- MINERAL + ROCK

Your choice will **depend on the surface where it will be applied** (tiles, wood...) and the room type (bathrooms, kitchen, swimming pool, outdoors, floors, walls, stores...).

Selecting the approach is the most technical part of the project. We offer personalized advice to professionals

Choosing the right microcement, as well as selecting a professional installer trained in the application of microcement, is **the key to a 100% satisfactory result**.

# TECHNICAL SOLUTIONS

*A different microcement, according to each need.*

We have been manufacturing microcement for years, which allows us to **know in detail how this material acts on each of the surfaces** (tiles, wood...).

In addition, thanks to our daily work with architects, interior designers, masons and installers of microcement, we are able to recognize the needs of each work. This has allowed us to create **specific products to provide the best solution to any space or architectural problem.**

## MINERAL

The **MINERAL** solution is ideal for those who want the **appearance of their microcement to be as natural as possible.** Its hardness allows it to be applied in any part of the house.

**Suitable for any interior room of the home.**

## MINERAL +Flex

The **MINERAL + FLEX**, solution, thanks to its **high flexibility**, is ideal for buildings or constructions where there is or may be **structural movement and a predisposition for cracks or fractures.** This is especially applicable to metal or wooden structures due to the expansion and contraction processes. In addition, it is **impermeable in bulk**, which is a very important property depending on the surface to which it will be applied.

**Suitable for spaces with possible structural movement.**

## MINERAL +Rock

The **MINERAL + ROCK** solution offers unparalleled performance because it is a microcement that is **harder than polished cement.** Besides, it is **impermeable in bulk** and has **unmatched compressive and tensile strength.** Thanks to this, the coating is not affected by solvents and chemical compounds, it does not crack or split. **High adhesion** to any surface. Specifically designed for use in **high traffic areas.**

**Suitable for stores and high traffic areas.**

### Bulk impermeability

We introduce the concept of bulk impermeability when it comes to waterproofing materials that **prevent the passage of gases and water** (or other liquids). Their surface does not absorb or allow liquid or gas to pass through.




### Why choosing a microcement with bulk impermeability?

Microcements that are not waterproof in bulk require a thorough and correct application of the sealer as a final finish to ensure good waterproofing.



Cemher® proposes an **innovative solution**, to avoid problems and/or unsightly defects that can damage the image and functionality. Our waterproof in bulk microcements (Mineral+Rock and Mineral+Flex Solution) **do not need sealant, as they are already waterproof.** This means **no staining or softening of the product from moisture.**

The microcement itself acts as an insulating barrier to prevent damp. The sealant is only applied to provide the chemical resistance that is needed against chlorine, salt, bleach, hydrochloric acid, etc.

### Hardness

-  Compressive strength: **27 mpa**
-  Compressive strength: **30 to 48 mpa**
-  Compressive strength: **80 mpa**

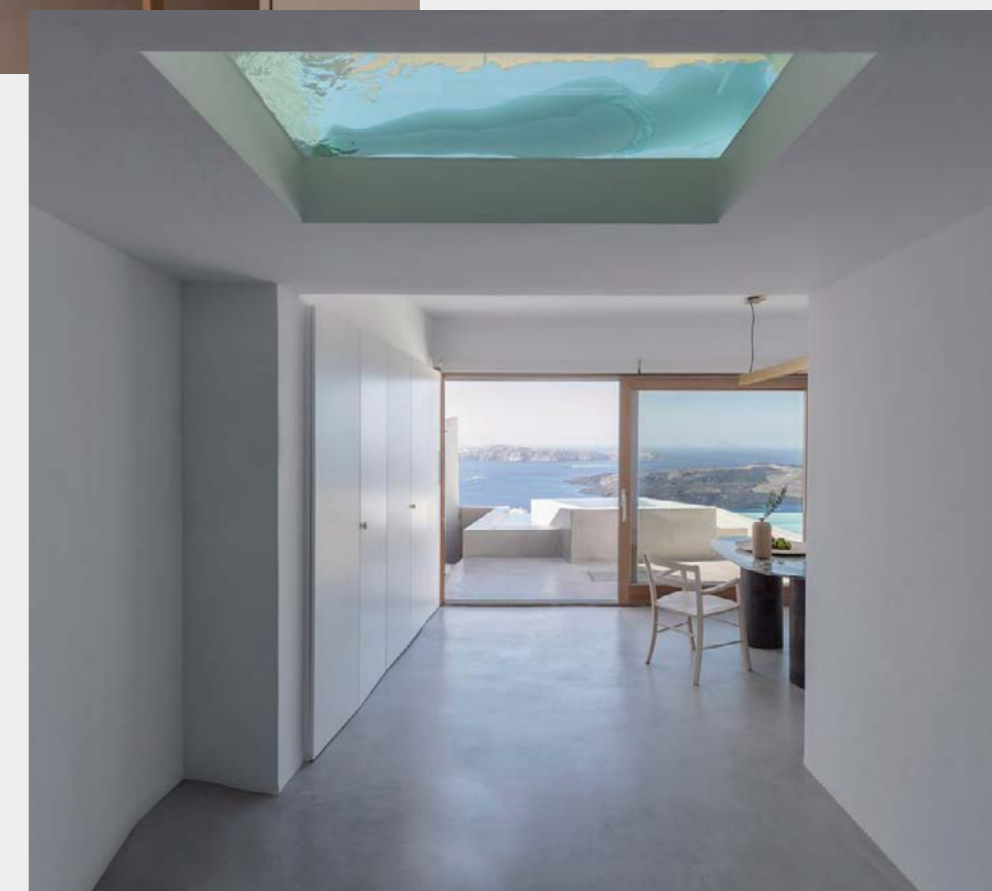
### Flexibility

-  Elongation at break: **5 %**
-  Elongation at break: **10 %**
-  Elongation at break: **75 %**

*Microcement collection*  
**NATURAL**

With infinite decorative possibilities and characterized by its **elegant cementitious texture**, reminiscent of **natural stone**, NATURAL is Cemher®'s most established collection.

This collection is presented in 5 different finishes:  
Traditional, Balasto, Petra, Granza and Vulcano.



Natural

# TRADITIONAL

**Ultra fine granulometry.** It is characterized by a pronounced **stucco effect** (cloudy effect). The intensity of the stucco can be enhanced or attenuated during application, thus creating an elegant handcrafted profile that makes each project unique and unrepeatable

Use only for finishing

40 Colors



Stucco effect



## MINERAL

Hardness

Flexibility

Impermeability in bulk No

Uses **Interior:** floors, underfloor heating systems, walls, ceilings and furniture.  
**Bathrooms and kitchens:** floors, walls, ceilings and countertops.



## Gloss type



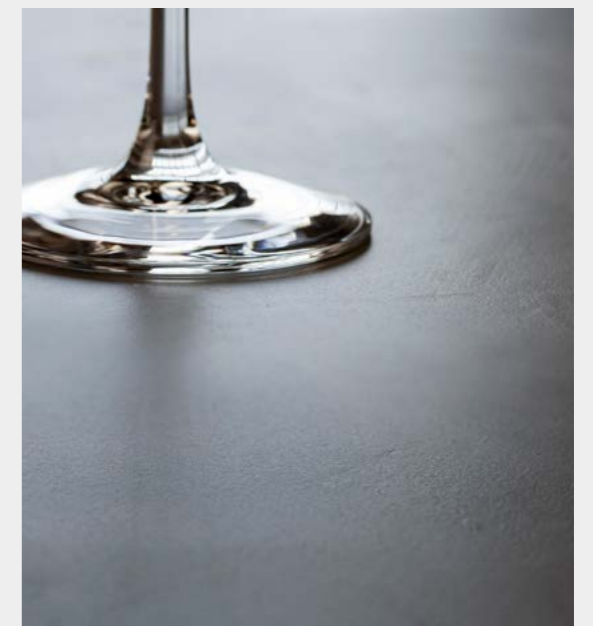
Gloss

Satin

Matt

G1

## Ultra Fine



Anti-slip class: C2

Natural

# BALASTO

**Fine granulometry.** It is defined by its **slight stucco effect** (cloudy effect). Its stucco is much more subtle than that of the Traditional finish, whose intensity can be enhanced or attenuated during application, thus showing an elegant handcrafted profile that makes each project unique and inimitable.

Use only for finishing

40 Colors



Slight stucco effect



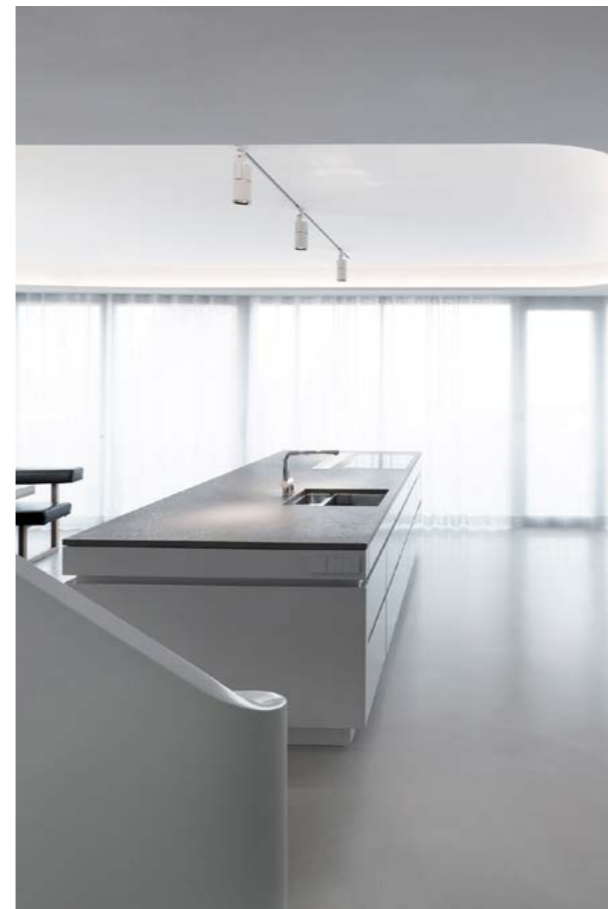
## MINERAL

Hardness

Flexibility

Impermeability in bulk No

Uses **Interior:** floors, underfloor heating systems, walls, ceilings and furniture.  
**Bathrooms and kitchens:** floors, walls, ceilings and countertops.



## Gloss type



Gloss

Satin

Matt



Fine



Anti-slip class: C2



Natural

# PETRA

Medium granulometry, therefore it offers a high hardness. Suitable for high traffic areas: shopping malls, public buildings, workplaces or residential spaces, indoors or outdoors, where Petra finishing offers excellent performance. Does not create a stucco effect.

Use only for finishing



40 Colors



No Stucco Effect



## MINERAL

Hardness

Flexibility

Impermeability in bulk No

Uses **Interior:** floors, underfloor heating systems, walls, ceilings and furniture.  
**Bathrooms and kitchens:** floors, walls, ceilings and countertops.

## MINERAL+ Rock

Hardness

Flexibility

Impermeability in bulk Yes

Uses **Interior:** floors, walls, ceilings and furniture.  
**Bathrooms and kitchens:** floors, walls, ceilings, countertops, shower trays, sinks and toilets.  
**Exterior:** facades, outdoor kitchens, furniture, planters, floors and paving.

## MINERAL+ Flex

Hardness

Flexibility

Impermeability in bulk Yes

Uses **Interior:** floors, walls, ceilings and furniture.  
**Bathrooms and kitchens:** floors, walls, ceilings, countertops, shower trays, sinks and toilets.  
**Exterior:** facades, outdoor kitchens, furniture and planters.

## Gloss type



Gloss

Satin

Matt



## Medium



Anti-slip class: C2

Natural

# GRANZA

**Coarse-grained**, Granza is characterized by its hardness, higher than that of the Petra finish. Excellent performance in high traffic areas (shopping malls, public buildings, workplaces or residential spaces, whether indoors or outdoors). Does not create a stucco effect.

Can be used as a finish and base coat.

40 Colors



No Stucco Effect



## MINERAL

Hardness

Flexibility

Impermeability in bulk No

**Uses** **Interior:** floors, underfloor heating systems, walls, ceilings and furniture.  
**Bathrooms and kitchens:** floors, walls, ceilings and countertops.

## MINERAL+ Rock

Hardness

Flexibility

Impermeability in bulk Yes

**Uses** **Interior:** floors, walls, ceilings and furniture.  
**Bathrooms and kitchens:** floors, walls, ceilings, countertops, shower trays, sinks and toilets.  
**Exterior:** facades, outdoor kitchens, furniture, planters, floors and paving.

## MINERAL+ Flex

Hardness

Flexibility

Impermeability in bulk Yes

**Uses** **Interior:** floors, walls, ceilings and furniture.  
**Bathrooms and kitchens:** floors, walls, ceilings, countertops, shower trays, sinks and toilets.  
**Exterior:** facades, outdoor kitchens, furniture and planters.

Gloss type



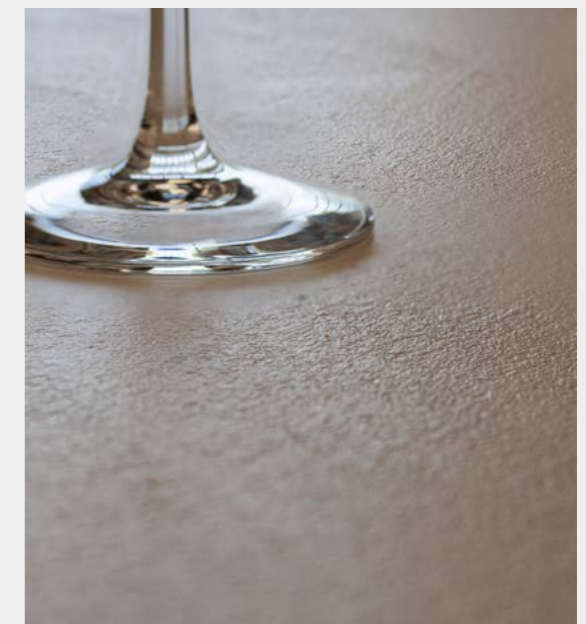
Gloss

Satin

Matt



Coarse



Anti-slip class: C2

Natural

# VULCANO

Ultra coarse-grained and highly non-slip. Its singularity is its **extreme hardness**. Extraordinary performance in high traffic areas (shopping centers, public buildings, workplaces or residential spaces, whether indoors or outdoors). Does not create a stucco effect.

Can be used as a finish and base coat.

40 Colors



No Stucco Effect



## MINERAL

Hardness

Flexibility

Impermeability in bulk No

Uses **Interior:** floors, underfloor heating systems, walls, ceilings and furniture.  
**Bathrooms and kitchens:** floors, walls, ceilings and countertops.

## MINERAL+ Rock

Hardness

Flexibility

Impermeability in bulk Yes

Uses **Interior:** floors, walls, ceilings and furniture.  
**Bathrooms and kitchens:** floors, walls, ceilings, countertops, shower trays, sinks and toilets.  
**Exterior:** facades, outdoor kitchens, furniture, planters, floors and paving.

Gloss type



Gloss

Satin

Matt



Ultra Coarse



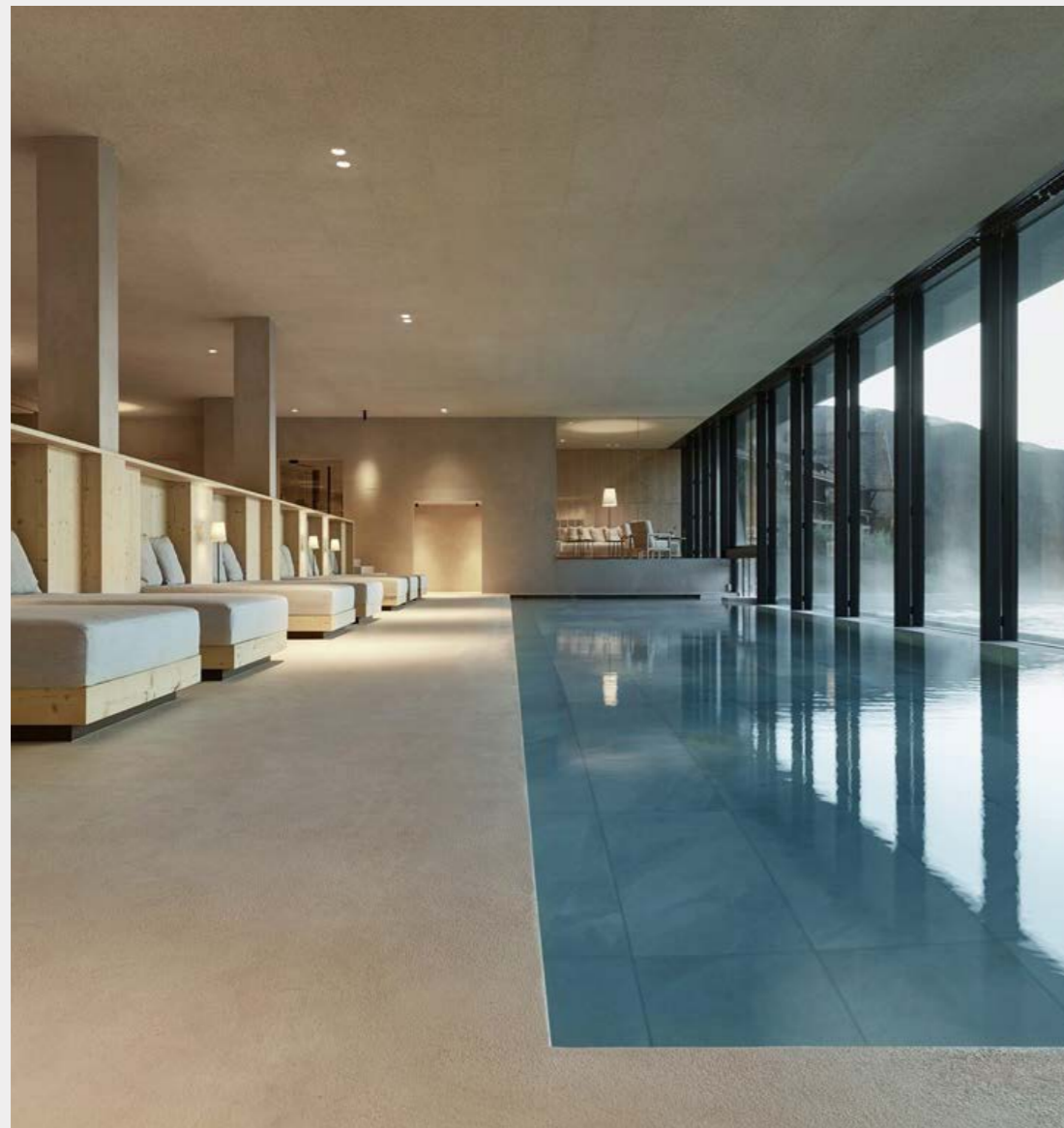
Anti-slip class: C3

*Microcement Collection*

# INDUSTRIAL

Waterproof in bulk, and characterized by its **non-porous texture** and **industrial aesthetics**. INDUSTRIAL is the newest collection of the Cemher® brand.

Integrated by the finishes: Ethereal and Uzino.



Industrial

# ETHEREAL

**Ultra fine granulometry.** Featuring an **accentuated stucco effect** (cloudy effect). The intensity of the stucco can be enhanced or attenuated during application, thus showing an elegant handcrafted profile that makes each project unique and unrepeatable.

Use only for finishing

40 Colors



Stucco effect



## MINERAL+ Rock

Hardness

Flexibility

Impermeability in bulk Yes

**Uses**  
**Interior:** floors, underfloor heating systems, walls, ceilings and furniture.  
**Bathrooms and kitchens:** floors, walls, ceilings, countertops, shower trays, sinks and toilets.  
**Exterior:** facades, outdoor kitchens, furniture, planters, swimming pools, spas, floors and paving.

## MINERAL+ Flex

Hardness

Flexibility

Impermeability in bulk Yes

**Uses**  
**Interior:** floors, radiant floors, walls, ceilings and furniture.  
**Bathrooms and kitchens:** floors, walls, ceilings, countertops, shower trays, sinks and toilets.  
**Exterior:** facades, outdoor kitchens, furniture and planters.

## Gloss type



Gloss

Satin

Matt

G1

## Ultra Fine



Anti-slip class: C2

Industrial

# UZINO

**Ultra fine granulometry.** Uzino stands out for its homogeneous finish, without stucco effect (cloudy effect). Thanks to its **high hardness**, Uzino is very suitable for high traffic areas (shopping centers, public buildings, workplaces or residential spaces, whether indoors or outdoors).

Use only for finishing

40 Colors



No Stucco Effect



MINERAL+ Rock

Hardness

Flexibility

Impermeability in bulk Yes

**Uses**  
**Interior:** floors, underfloor heating systems, walls, ceilings and furniture.  
**Bathrooms and kitchens:** floors, walls, ceilings, countertops, shower trays, sinks and toilets.  
**Exterior:** facades, outdoor kitchens, furniture, planters, swimming pools, spas, floors and paving.



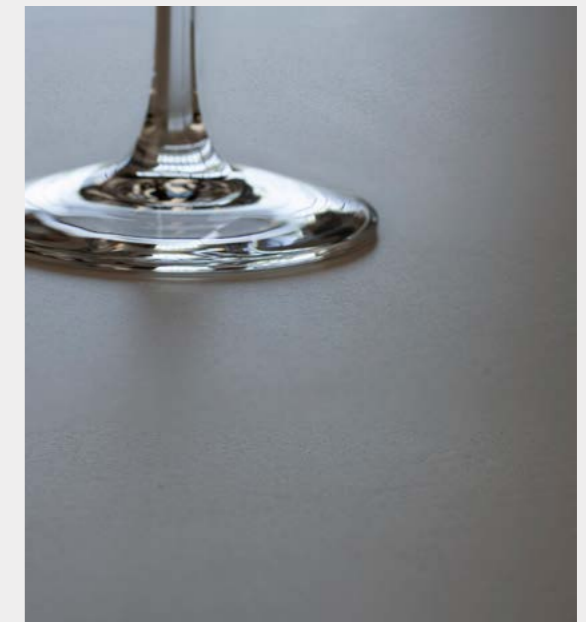
Gloss type



Gloss Satin Matt

G1

Ultra Fine



Anti-slip class: C2

# ARTISANS

*Each of our projects is a unique work*



*In its nature  
lies the  
uniqueness  
of imperfect  
beauty*

## EXCLUSIVITY

*With Cemher® you can create singular  
and peerless spaces.*

If there is something similar between microcement and craftsmanship, it is that both do not seek perfection in their creations as if they were industrially manufactured. The projects are created by hand by professional craftsmen, trained and advised on the latest techniques of application of microcement.

# PRESCRIPTION FOR CONSTRUCTION

## SURFACE PREPARATION

Before applying microcement, the surface must be properly prepared to avoid future problems. For this reason, we have classified the most common surfaces in construction. Depending on each one, its characteristics and condition, we recommend using some products or others.

*\*Important: the following technical recommendations guarantee a satisfactory result as long as the work project runs properly. However, we always advise the professional to evaluate and carry out a testing of the surface before starting the project in order to decide on the best solution. This will prevent unforeseen events from affecting the condition of the microcement to a greater extent.*

## CEMENTITIOUS SURFACES

Before applying microcement, check that the surface is in good condition. The tensile strength should be 1.5 N/mm<sup>2</sup> "Pull-off test". If this is not the case, a concrete consolidator should be applied.

If moisture is present, you should apply a vapor barrier called Vapoepox 100, an anti-humidity epoxy primer. Afterwards, two coats of microcement Base should be applied.

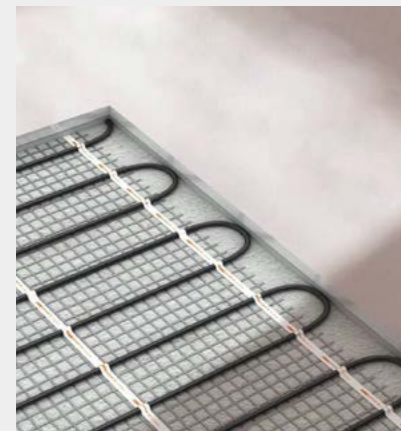


### SURFACES

Concrete floors  
Ready-mix self-leveling mortars  
Bagged self-leveling mortars  
Other mortars

### PREPARATION

Compactec *"If the surface is of low quality"*  
+  
Vapoepox 100 + Mesh *"If moisture is present"*  
+  
Microröck Base or Microflex Base



## UNDERFLOOR HEATING SYSTEMS

For underfloor heating systems, it is necessary to directly apply the Microdur or Microflex microcement base, which are heat-conducting microcements.

### SURFACES

Anhydrite screeds

### PREPARACIÓN

Microdur Base or Microflex Base

## PLASTERBOARD

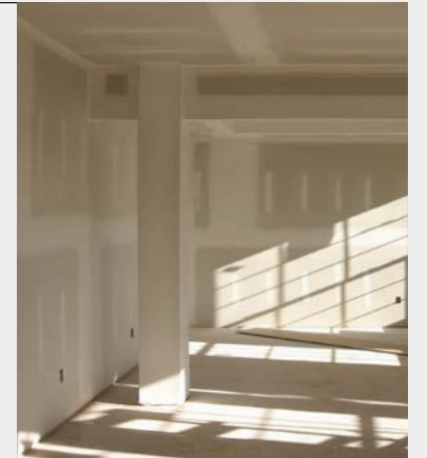
Since it is a very porous surface, it is necessary to use Primer 100 + Mesh.

### SURFACES

Conventional plasterboard  
Gypsum

### PREPARATION

Primer 100 + Mesh  
+  
Microdur Base



## TILES

As a previous step, Jointsepo, a special epoxy compound, should be used to fill and smooth the joints.

### SURFACES

Unglazed tiles  
Ceramic tiles  
Porcelain tiles  
Natural stone or limestone  
Marble  
Glass tiles  
Hydraulic tiles  
Granite

### PREPARATION

Jointsepo *"Joint cover"*  
+  
Microröck Base or Microflex Base

## WOOD

As wood is a very flexible material, our recommendation is the Microflex Base, which is perfect for withstanding the processes of contraction and expansion.

### SURFACES

Floorboards  
Parquet

### PREPARATION

Microflex Base

## POOLS

For areas containing water, Microröck Base should be applied as it is waterproof in bulk.

### SURFACES

Gresite  
Shotcrete

### PREPARATION

Microröck Base



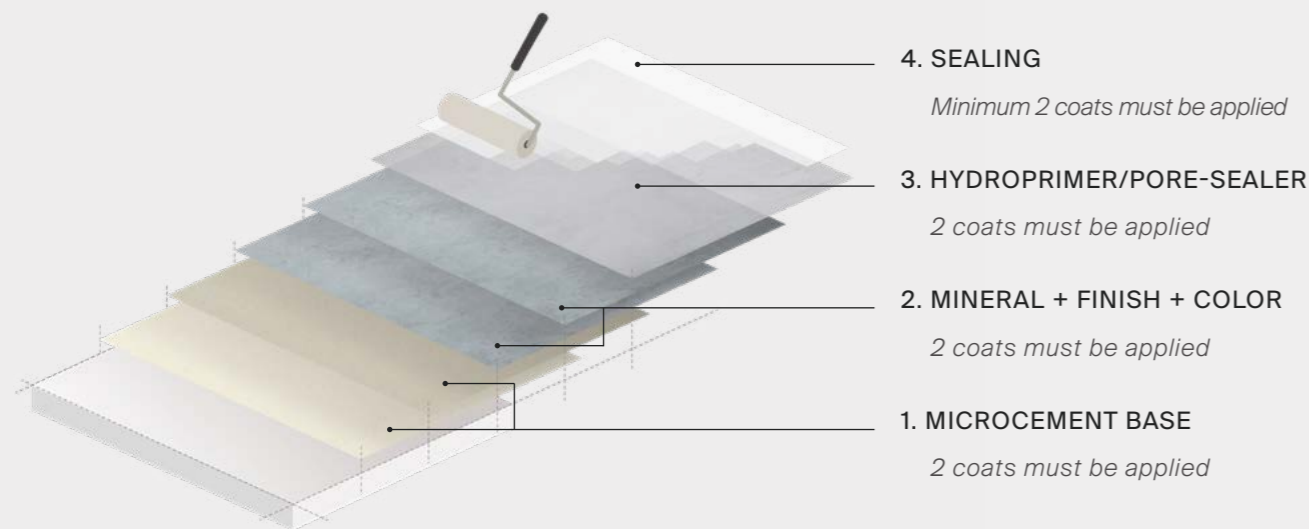
# MINERAL SOLUTION

Within the Mineral Solution, you will find 3 microcement lines: Microduo, Microdur and Microlevel. Aesthetically, the difference is minimal. The choice between one line or another usually depends on the preferences of the professional installer.

**MICRODUO:** Two-component microcement. Composed of limes, so the end result gives us a greater stucco effect.

**MICRODUR Y MICROLEVEL:** Single-component microcements. Composed of cement, which gives the material more hardness.

Microlevel's main difference is its tendency to level out, which makes it easier to apply on floors.



<b>PREVIOUS STEP</b>
Surface preparation

## STEP 1

**Microcement Base** application (2 coats)

Bases available in the Mineral Solution: **Microdur, Microröck and Microflex**. The choice of line will depend on the material of the surface on which it is to be applied.

## STEP 2

Application of the **Mineral Solution + Finish + Color** (2 coats)

Microcements available in the Mineral Solution: **Microduo, Microdur and Microlevel**.

## STEP 3

Application of **Hydroprimer CI (Pore-sealer)**

It is applied to avoid undesired variations in color shades.

## STEP 4

**Sealer** application

Sealers available in the Mineral Solution: **Aquamax Extreme (water-base) and Maxipur 100% (solvent-based)**.

The sealing layer is extremely important, as this is a non-waterproof in bulk microcement system. The impermeability of the surface will depend on the grams of sealer applied per square meter. Cemher® recommends you to apply at least 2 coats.

*\*Important! When applying, do not squeeze out the roller excessively. It must be sufficiently impregnated with sealer to achieve a correct waterproofing and avoid dampness.*

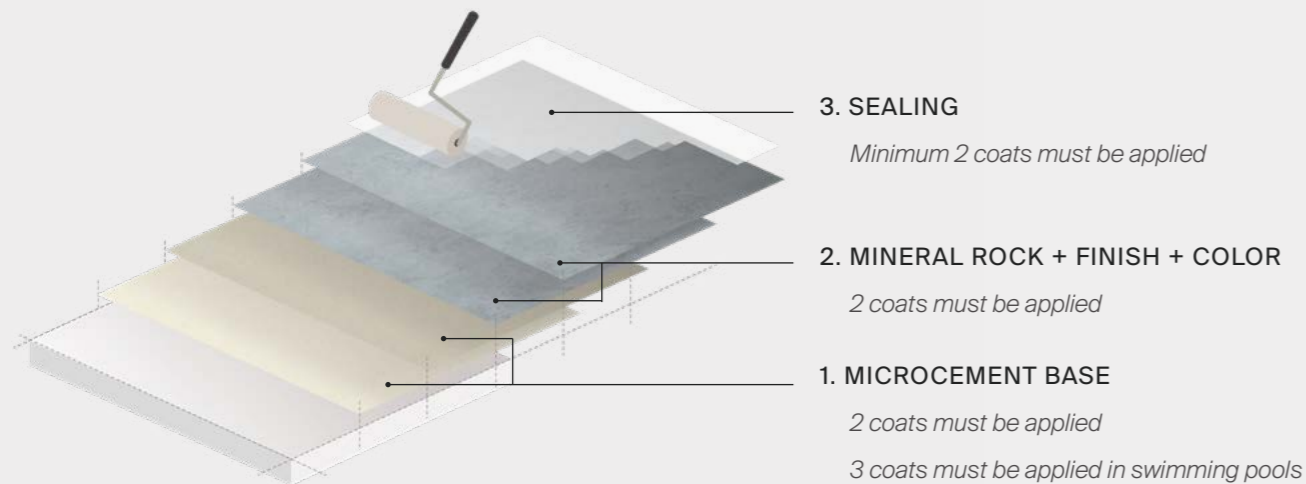
# MINERAL+Rock SOLUTION

Within the Mineral + Rock Solution, you will find 2 microcement lines: Microröck and Micropool.

Aesthetically they are exactly the same. The difference is that Micropool is specially designed for applications on surfaces immersed in water such as swimming pools.

**MICRORÖCK:** Two-component microcement. Does not break, crack or stain. With a high adhesion to any surface. Specially designed for applications in high traffic areas.

**MICROPOOL:** Specially designed for applications on surfaces immersed in water such as swimming pools. Specifically formulated to create a certain permeability to water vapor to avoid blistering due to lack of permeability.



<b>PREVIOUS STEP</b>
Surface preparation

## STEP 1

**Microcement Base** application (2 coats)

Bases available in the Mineral + Rock Solution:  
**Microröck and Micropool.**

Important! Do not use any base other than Microröck or Micropool to avoid cracking.

## STEP 2

Application of the **Mineral + Rock Solution + Finish + Color** (2 coats)

Microcements available in the Solución Mineral + Rock:  
**Microröck and Micropool.**

## STEP 3

**Sealer** application

Sealers available in the Mineral + Rock Solution:  
**Aquamax Extreme (water-base) and Maxipur 100% (solvent-based).**

Important! Only Maxipur 100% can be applied in swimming pools.

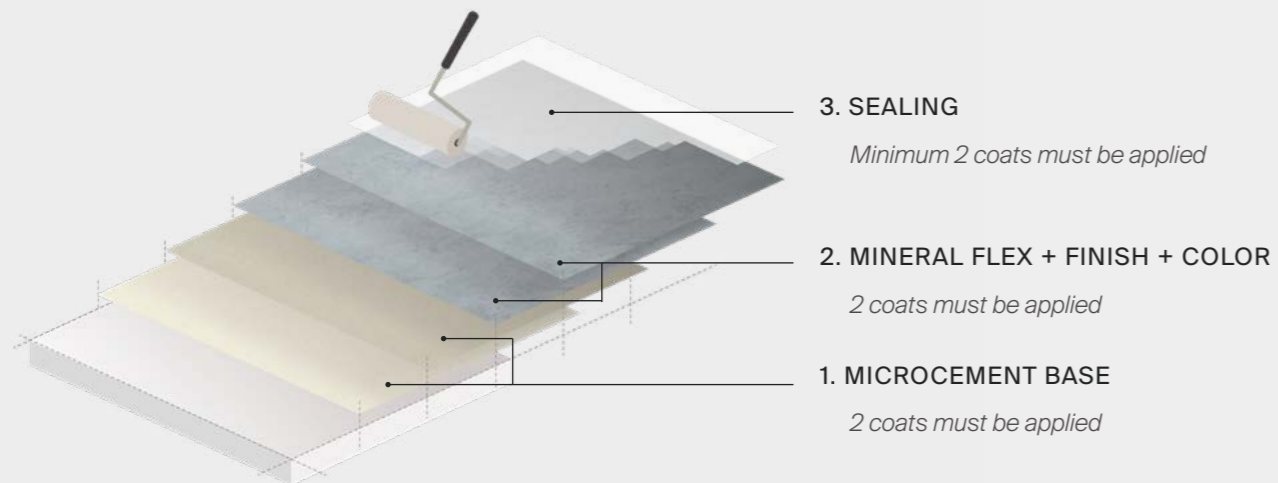
In this case, when using waterproof in bulk microcement, the sealing layer is applied only to provide chemical protection against: bleach, sulfuman, limescale or chlorine among others.

# MINERAL+Flex SOLUTION

The Mineral + Flex Solution is composed of Microflex microcement.

Its flexibility makes this microcement the ideal product for buildings or constructions with significant structural movements. This is especially applicable to metal or wooden structures due to expansion and contraction processes. Microflex is the most suitable microcement to apply on any area with a predisposition to the appearance of crack or fissures, independent of its origin.

**MICROFLEX:** Two-component microcement that is defined above all by its great flexibility. It can be rolled up as if it were a fabric. Even by applying several layers of great thickness, we will still have a highly flexible material. Microflex has not yet been equaled by any other coating. In addition, it is waterproof, a really important attribute depending on the surface where it is to be applied.



<b>PREVIOUS STEP</b>
Surface preparation

## STEP 1

**Microcement Base** application (2 coats)

Base available in the Mineral + Flex Solution: **Microflex**.

## STEP 2

Application of the **Mineral + Flex Solution + Finish + Color** (2 coats)

Microcements available in the Mineral+ Flex Solution: **Microflex**.

## STEP 3

**Sealer** application

Sealers available in the Mineral + Flex Solution: **Aquamax Extreme** (water-base) and **Maxipur 100%** (solvent-based).

In this case, when using waterproof in bulk microcement, the sealing layer is applied only to provide chemical protection against: bleach, sulfuman, limescale or chlorine among others.

# COLORS

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40 color toners for Mineral, Mineral + Rock and Mineral + Flex systems.

Matt / Satin / Gloss

Montblanc	Galaxy
Obsidiana	Acero
Crater Volcanico	Concrete
Selenita	Nebulosa
Roca Alpina	Piedra de Lago
Grafeno	Ocean
Titanium	Poseidón
Escorial	Bora Bora
	Silver
	Diamond

Matt / Satin / Gloss

Nicaragua	Vino tinto
Everest	Red Planet
Nepal	Industrial chic
Teide	Coral
Deer	Sunset
Smoked topaz	Giallo Horus
Chocolate	Midas
Bisón	Gobi desert
Parrot	El Alamo
Safari	Malta
Heno viejo	Vino Blanco

Technical Specifications

# MINERAL

		STANDARD	RESULT
	<b>Maximum indoor air quality rating for a dwelling</b> UNE EN 16516:2018	UNI EN ISO 16000-6:2019	A+
	<b>Thermal conductivity</b>	UNI EN 12664:2002	$\lambda=0,46$ (W/mK)
	<b>Reaction to fire classification 1*</b> UNE EN 13501-1:2019	UNI EN 13501-1:2019	Class A1 Class A <sub>1FL</sub>
	<b>Determination of adhesion strength</b> UNE EN 13813:2014	UNI EN 13892-8:2003	>4 N\mm <sup>2</sup> Class B 4,0
	<b>Impact strength</b> UNE EN 13813:2014	UNI EN 6272-2:2012	>18,5 Nm IR 18
	<b>Determination of the superficial hardness 1*</b> UNE EN 13813:2014	UNI EN 13892-6:2003	>200 N/mm <sup>2</sup> (SH 200)
	<b>Determination of compressive strength</b> UNE EN 13813:2014	UNI EN 13892-2:2005	>40 N\mm <sup>2</sup> Class C40
	<b>Determination of abrasion resistance BCA 1*</b> UNE EN 13813:2014	UNI EN 13892-4:2003	Class: AR 0,5 (max 50 $\mu$ m)
	<b>Depth of water penetration under pressure 1*</b> UNE EN 14891:2017	UNI EN 12390-8:2020	5 bar - 3 days Direct pressure: No penetration Indirect pressure: No humidity

1\* = Without sealer

		STANDARD	RESULT
	<b>Determination of slip resistance</b> Technical building code	UNE EN 12633:2003	Value (USRV): 41 Class 2
	<b>Liquid water permeability</b> UNE EN 1504:2005	UNE EN ISO 1062-3:2008	<0.1 Kg / (m <sup>2</sup> *h <sup>0.5</sup> )
	<b>Resistance to severe chemical attack</b> UNE EN 1504:2005	UNI EN 13529:2005	Class: II No alteration or reduction of hardness
	<b>Determination of the transmission properties of water vapors</b> UNE EN 1504:2005	UNE EN ISO 7783-2:2012	Class: 1 Sd<5 m For applications such as those described in the data sheet

The technical data in this table are based on ultra-fine-grained microcement.

Measurements in the hardness sections would improve considerably with coarser granulometries.

Technical Specifications

# MINERAL+Rock

	STANDARD	RESULT
	<b>Maximum indoor air quality rating for a dwelling</b> UNE EN 16516:2018	UNI EN ISO 16000-6:2019 A+
	<b>Thermal conductivity</b> UNE EN 12664:2002	$\lambda=0,82$ (W/mK)
	<b>Determination of adhesion strength</b> UNE EN 13813:2014	$>6$ N\mm <sup>2</sup> Class B 6,0
	<b>Impact strength</b> UNE EN 13813:2014	$>25,5$ Nm IR 24
	<b>Determination of the superficial hardness 1*</b> UNE EN 13813:2014	$>200$ N/mm <sup>2</sup> (SH 200)
	<b>Determination of compressive strength</b> UNE EN 13813:2014	$>80$ N\mm <sup>2</sup> Class C80
	<b>Determination of abrasion resistance BCA 1*</b> UNE EN 13813:2014	Class: AR 0,5 (max 50 $\mu$ m)
	<b>Depth of water penetration under pressure 1*</b> UNE EN 14891:2017	5 bar - 3 days Direct pressure: No penetration Indirect pressure: No humidity
	<b>Determination of slip resistance</b> Technical building code	Value (USRV): 41 Class 2

	STANDARD	RESULT
	<b>Liquid water permeability</b> UNE EN 1504:2005	UNE EN ISO 1062-3:2008 $<0,1$ Kg / (m <sup>2</sup> *h <sup>0,5</sup> )
	<b>Resistance to severe chemical attack</b> UNE EN 1504:2005	Class: II No alteration or reduction of hardness
	<b>Determination of the transmission properties of water vapors</b> UNE EN 1504:2005	Class: 1 Sd<5 m For applications such as those described in the data sheet

1\* = Without sealer

The technical data in this table are based on ultra-fine-grained microcement.






Measurements in the hardness sections would improve considerably with coarser granulometries.

Technical Specifications

# MINERAL+Flex

	STANDARD	RESULT
	<b>Maximum indoor air quality rating for a dwelling</b> UNE EN 16516:2018	UNI EN ISO 16000-6:2019 A+
	<b>Thermal conductivity</b> UNE EN 12664:2002	$\lambda=0,55$ (W/mK)
	<b>Determination of adhesion strength</b> UNE EN 13813:2014	$>4$ N\mm <sup>2</sup> Clase B 4,0
	<b>Impact strength</b> UNE EN 13813:2014	$>20$ Nm IR 20
	<b>Determination of the superficial hardness 1*</b> UNE EN 13813:2014	$>150$ N/mm <sup>2</sup> (SH 150)
	<b>Determination of compressive strength</b> UNE EN 13813:2014	$>30$ N\mm <sup>2</sup> Class C30
	<b>Determination of abrasion resistance BCA 1*</b> UNE EN 13813:2014	Class: AR 0,5 (max 50 $\mu$ m)
	<b>Depth of water penetration under pressure 1*</b> UNE EN 14891:2017	5 bar - 3 days Direct pressure: No penetration Indirect pressure: No humidity
	<b>Determination of cracking properties.1*</b> UNE EN 14891:2017	Class A5

1\* = Without sealer

	STANDARD	RESULT
	<b>Determination of slip resistance</b> Technical building code	UNE EN 12633:2003 Value (USRV): 41 Class 2
	<b>Liquid water permeability</b> UNE EN 1504:2005	UNE EN ISO 1062-3:2008 $<0.1$ Kg / (m <sup>2</sup> *h <sup>0.5</sup> )
	<b>Resistance to severe chemical attack</b> UNE EN 1504:2005	UNI EN 13529:2005 Class: II No alteration or reduction of hardness
	<b>Determination of the transmission properties of water vapors</b> UNE EN 1504:2005	UNE EN ISO 7783-2:2012 Class: 1 Sd<5 m For applications such as those described in the data sheet
	<b>CO<sup>2</sup> permeability</b> UNE EN 1504:2005	UNE EN ISO 10062:2008 Sd>50
	<b>Elongation at break</b> UNE EN 1504:2005	UNE EN ISO 527-3 65%

The technical data in this table are based on ultra-fine-grained microcement.

Measurements in the hardness sections would improve considerably with coarser granulometries.

# CEMHER®

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