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MINERAL COATINGS

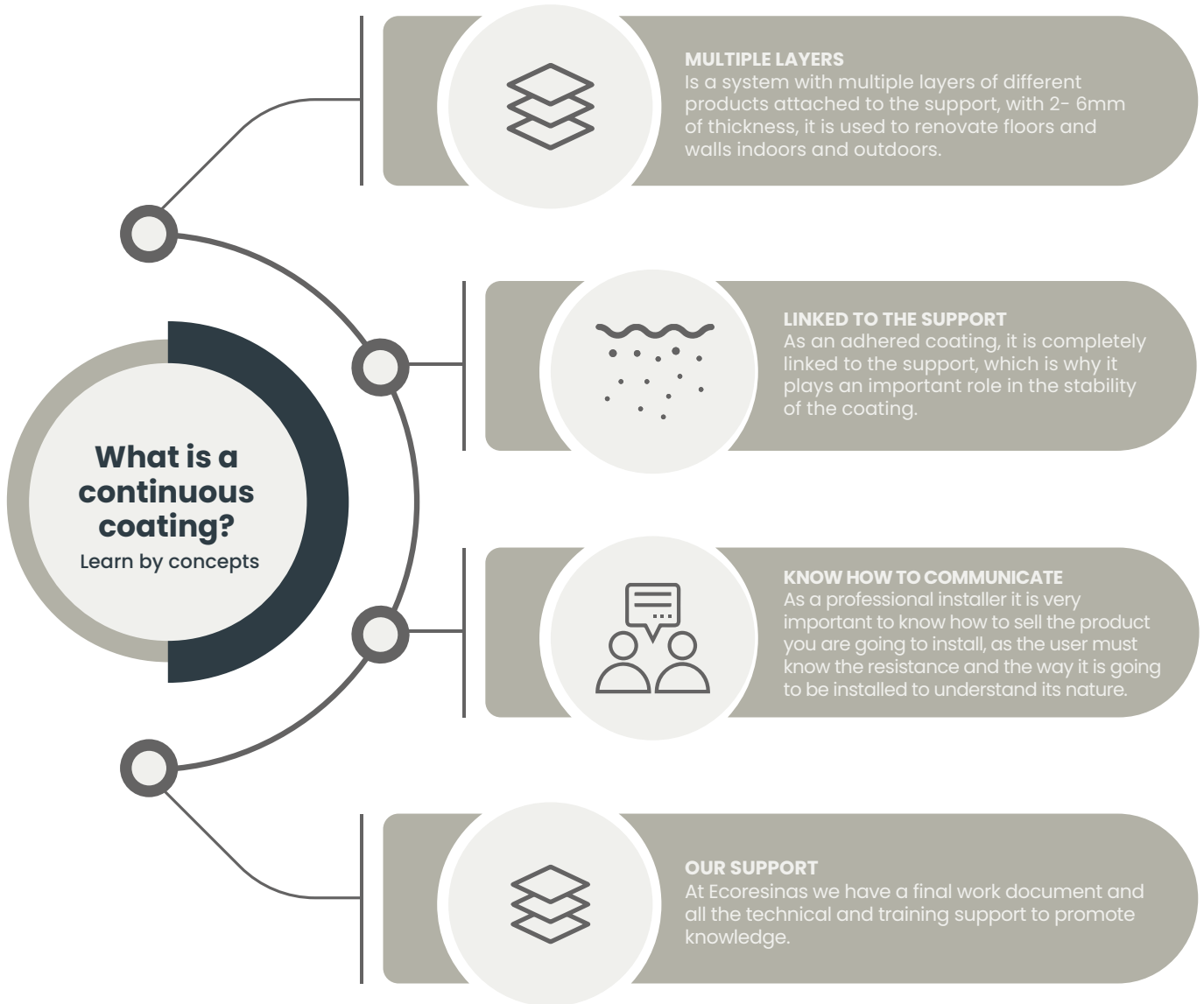

MicroQuarz
by **ecoresinas**

Installation manual

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Knowledge



Knowledge

Is microcement **hard**?

In this table you can see the comparison between two types of traditional floors, parquet and terrazzo and the degree of resistance of continuous coatings.

TERRAZO



1 **Very high** resistance
MicroQuarz® HARD TRANSIT XL

2 **High** resistance
MicroQuarz® HARD TRANSIT

3 **Mid-high** resistance
MicroQuarz® CLASSIC
MicroQuarz® NATURE
MicroQuarz® TERRA

4 **Moderate** resistance
Traditional micro cement

PARQUET



Support

Characteristics of an **ideal support**

The support
must be
HARD



It is understood as **hard**, a support
with resistance equal to or greater
than concrete 25MPa.

Our continuous coatings

can be applied on:

- Concrete
- Terrazzo
- Ceramic
- Cement mortar
- Any mineral support

Our continuous coatings

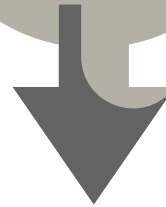
cannot be applied on:

- Rubber
 - Wood on floor
 - Metal
-

Support

Characteristics of an **ideal support**

The support must be
STABLE



Check that there are no cracks or loose ceramic pieces. If there are regattas on the ground, cover them with high resistance mortar and without shrinkage.

Heating installations in regattas must be insulated so as not to generate areas of thermal shocks that could affect the surface.



REPAIR
the support
whenever it
is necessary

Support

Characteristics of an **ideal support**

The support
must be
FLAT

It must be taken into account that we are working with coatings between 2mm and 6mm, and that this thickness is achieved in successive layers.

If we do not have a smooth support, we must transform it into smooth before applying any system.



SMOOTH
the support
whenever it is
necessary

Support

Characteristics of an **ideal support**

The support
must be
EVEN



A floor only needs to be leveled when the chosen system involves a self-leveling product, such as **Level TRP**, **Metallic Effect**, or **LevelColor**. Leveling is necessary either when the project specifically requires it or when the substrate has significant imperfections.

In the case of MicroQuarz®, leveling the substrate is not necessary, as MicroQuarz® is not a self-leveling product. However, it is essential for the surface to be smooth.



LEVEL the support always with
high-resistance materials

Support

Characteristics of an **ideal support**



The support
must
NOT have
HUMIDITY

We are going to identify it, there are two types of humidity:
Residual and Water Table humidity

Residual

It is the moisture that is contained within the supports. We can find it in a concrete that has been installed a few days ago, or a wall plaster that has not yet dried. It also manifests itself in poorly ventilated environments where moisture is perceived by condensation.

Solution: Chemical Vapor Barrier

Water table

It is the moisture that accumulates in the subsoil. When there is no insulation, the water is absorbed by the concrete and rises to the cladding. In tiled floors it does not affect stability but in thin layer polymeric coatings it detaches them from the support.

Solution: Constructive, install insulation



Support

It is important to know how to read the support and give the corresponding solution before installing the cladding. If one of these conditions is not present in the support, then the coating will have problems with adhesion, stability, aesthetics, etc.

"The perfect support
is hard, stable,
smooth, level and
without humidity"

Environment and Drying

In interior cladding, the environment must be **DRY**. Humidity by condensation lengthens the drying process of the resins.

It is **VERY IMPORTANT** to work in a **CLEAN** environment. If we work with decorative resins, the dust from the work can fall and dirty the finish.

TEMPERATURE. On the other hand, the resins do not dry in situations where the temperature is below 5C and if it is kept below 15C the drying time is lengthened, preventing productivity on the job site. Elevated temperatures above 25C shorten the drying process and this can affect both drying and application where the products can be difficult or impossible to work with.

CURED. Curing is the completion of the coating drying process, that is, when it acquires all resistance such as adhesion, hardness, abrasion, etc. This happens after 10 days at a stable temperature of 23C, if during this period the temperature decreases, the curing is prolonged. This does not mean that the pavement is not passable until the curing is finished, the coatings can be trafficked within 48 hours of the finish, but special care must be taken not to drag furniture or support heavy elements during these days. It is also important to have protections on the legs of chairs and tables to favor the care of the floor.



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MINERAL COATINGS

_MicroQuarz® **Application Systems**

- MicroQuarz® Classic • MicroQuarz® Hybrid • MicroQuarz® Nature
- MicroQuarz® HARD Transit • MicroQuarz® Terra • MicroQuarz® HARD Transit XL •

Application system_ **MicroQuarz® Classic**



_Fields of **application**

It is used as a coating for floors, walls, furniture, etc. where a natural finish is required, with a cement look where water marks are seen or produced by the application, also the possibility of a uniform finish without water.



_ **Wall** consumption

1. PrimerQuarz (0,2 kg/m²) + Mesh + MicroQuarz® BASE COLOUR (1 kg/m²)
2. MicroQuarz® BASE COLOUR (0,8 kg/m²) ** If a further layer of MicroQuarz® BASE COLOUR (0,5 kg/m²)
3. MicroQuarz® FINE COLOUR (0,4 kg/m²)
4. Primer Finish (0,04 kg/m²)
5. Two layers of Finish W TRP (0,12 kg/m²)



_ **Floor** consumption

1. PrimerQuarz (0,2 kg/m²) + Mesh + MicroQuarz® HARD BASE (1,6 kg/m²)
2. MicroQuarz® + HARD BASE COLOUR (1 kg/m²)
3. MicroQuarz® BASE COLOUR (0,9 kg/m²)
4. MicroQuarz® FINE COLOUR (0,3 kg/m²)
5. Primer Finish (0,04 kg/m²)
6. Two layers of Finish W TRP RADIANT (0,12 kg/m²) diluted with 10% water



_ **Properties** of MicroQuarz®

- Anti-dust and resistance to pedestrian traffic
- The product does not dry in the bottle
- Easy to clean and maintain
- Ready to use
- Excellent adherence on any support
- Matte, satin and bright finish
- Decorative aspect
- Able to outdoors



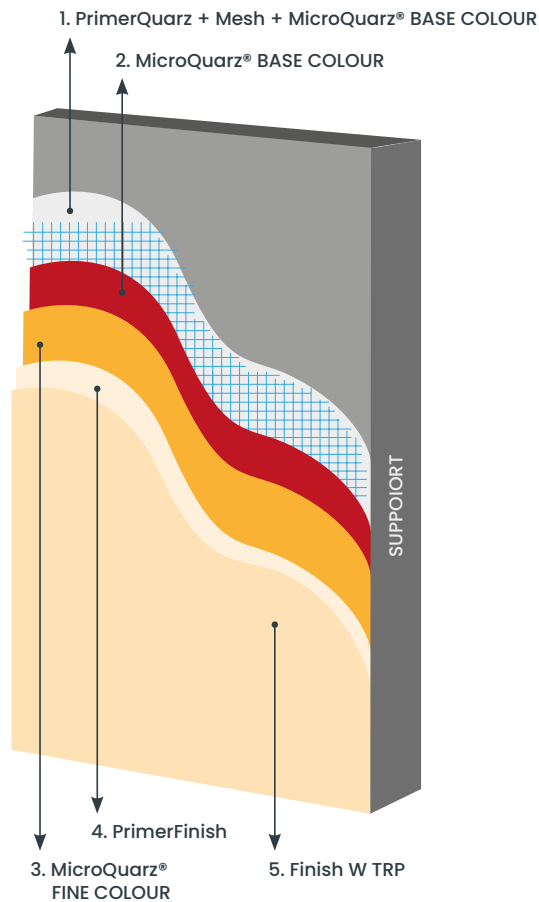
_ **Tools** needed

- BASE and HARD BASE coatings with rigid steel trowel
- FINE coating with flexible plastic or PRIME steel trowel by Marmorino Tools

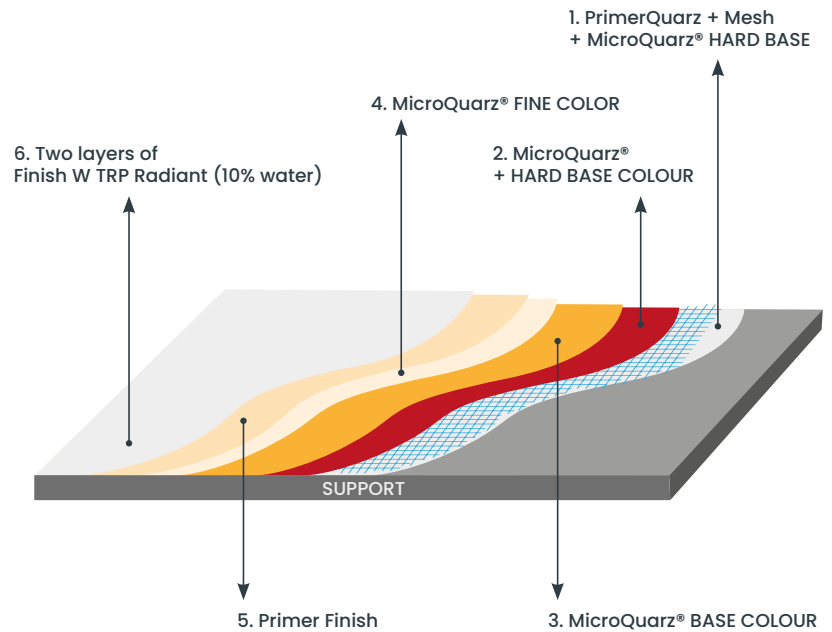


Application schemes

Application scheme **walls** ∨



Application scheme **floors** ∨



*On substrates with residual humidity, problems of efflorescence between the joints of the ceramic or terrazzo, or combined cement and ceramic, it is recommended to apply a coat of Primer AH with a consumption of 0.2 kg/m² and a minimum drying time of 8 hours, to avoid efflorescence and uniform absorption. Do not apply in the presence of phreatic humidity.

Application system_ **MicroQuarz® Hybrid**



_Fields of **application**

It is used for interior and exterior walls.



_ **Wall** consumption

1. PrimerQuarz (**0,2 kg/m²**) + Mesh + MicroQuarz® BASE COLOUR (**1 kg/m²**)
2. MicroQuarz® BASE COLOUR (**0,8 kg/m²**) ** If a further layer of MicroQuarz® BASE COLOUR (**0,5 kg/m²**)
3. MicroQuarz® HYBRID (**0,4 kg/m²**)
4. Primer Finish (**0,04 kg/m²**)



_ **Properties** of MicroQuarz®

- Anti-dust and resistance to pedestrian traffic
- The product does not dry in the bottle
- Easy to clean and maintain
- Ready to use
- Excellent adherence on any support
- Matte, satin and bright finish
- Decorative aspect

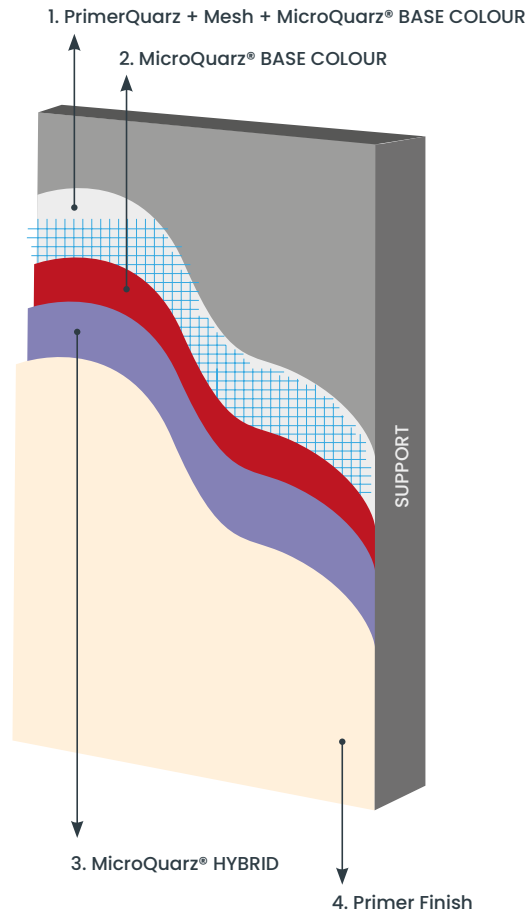


_ **Tools** needed

- BASE and HARD BASE coats with rigid steel trowel
 - FINE coat with flexible plastic trowel
-



_Application schemes



*On substrates with residual humidity, problems of efflorescence between the joints of the ceramic or terrazzo, or combined cement and ceramic, it is recommended to apply a coat of Primer AH with a consumption of 0.2 kg/m² and a minimum drying time of 8 hours, to avoid efflorescence and uniform absorption. Do not apply in the presence of phreatic humidity.

Application system_ **MicroQuarz® Nature**



_Fields of **application**

It is used as a covering for walls and floors with moderate traffic, where a decorative appearance of natural cement finish is required, with a feeling of polished concrete. Also, with possibilities of textures and surface designs using the stencil technique.



_ **Wall** consumption

1. PrimerQuarz (**0,2 kg/m²**) + Mesh + MicroQuarz® BASE (**1 kg/m²**)
2. MicroQuarz® NATURE COLOUR (**1,2 kg/m²**)
3. MicroQuarz® NATURE COLOUR (**1 kg/m²**). Fresh on fresh
4. Primer Finish (**0,04 kg/m²**)
5. OPTIONAL: For added protection Finish W TRP (**0,12 kg/m²**)



_ **Floors** consumption

1. PrimerQuarz (**0,2 kg/m²**) + Mesh + MicroQuarz® HARD BASE (**1,6 kg/m²**)
2. MicroQuarz® NATURE COLOUR (**1,2 kg/m²**)
3. MicroQuarz® NATURE COLOUR (**1 kg/m²**)
4. Primer Finish (**0,04 kg/m²**)
5. Two layers of Finish W TRP RADIANT (**0,12 kg/m²**) diluted with 10% water



_ **Properties** of MicroQuarz®

- Anti-dust and resistance to pedestrian traffic
- The product does not dry in the bottle
- Easy to clean and maintain
- Ready to use
- Excellent adherence on any support
- Matte, satin and bright finish
- Decorative aspect
- Able to outdoors



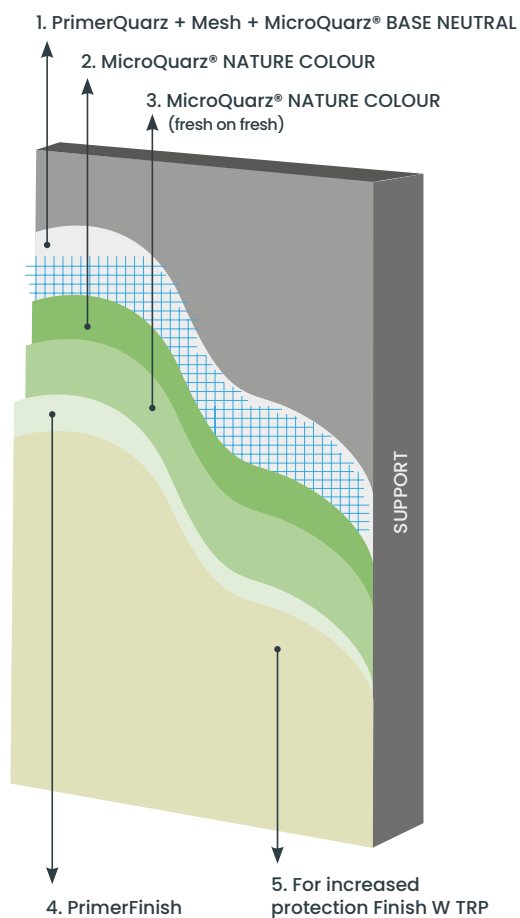
_ **Tools** needed

- BASE and HARD BASE coats with rigid steel trowel
- NATURE coat with flexible steel trowel

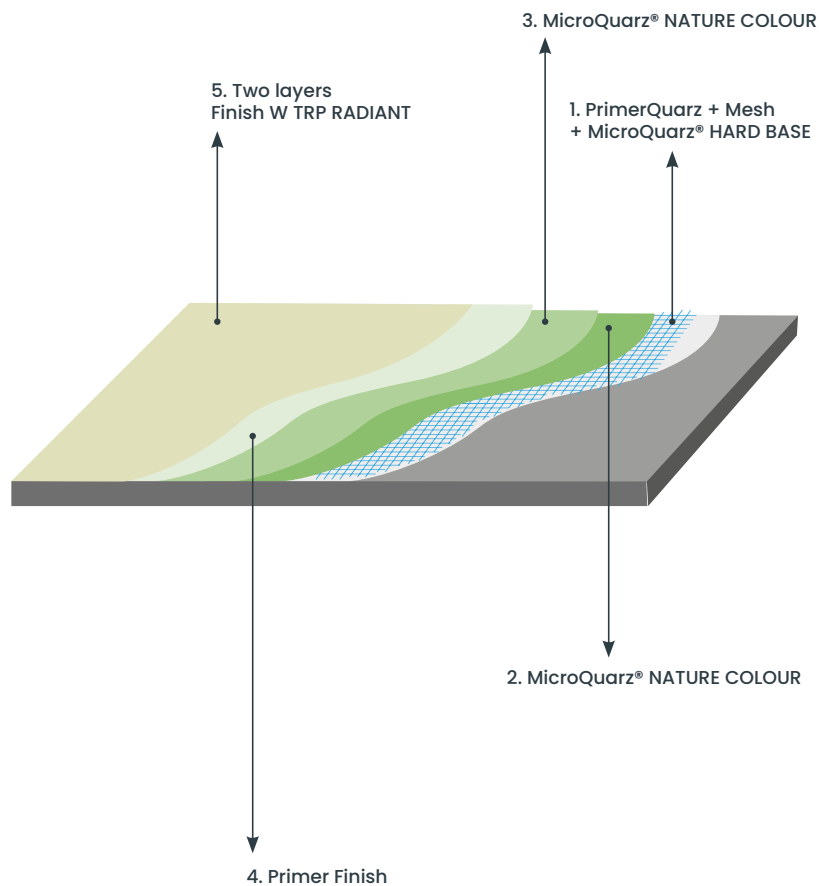


_Application schemes

Application scheme **walls** ∨



Application scheme **floors** ∨



*On substrates with residual humidity, problems of efflorescence between the joints of the ceramic or terrazzo, or combined cement and ceramic, it is recommended to apply a coat of Primer AH with a consumption of 0.2 kg/m² and a minimum drying time of 8 hours, to avoid efflorescence and uniform absorption. Do not apply in the presence of phreatic humidity.

Application system_ **MicroQuarz® HARD TRANSIT**



_Fields of **application**

It is used as a coating for floors, walls, furniture, etc. where a natural finish is required, with a cement appearance where water marks or marks produced by the application are seen, also the possibility of a uniform finish without water. bado uniforme sin aguas.



_ **Wall** consumption

1. PrimerQuarz (**0,20 kg/m²**) + Mesh + MicroQuarz® BASE NEUTRAL (**1 kg/m²**)
2. MicroQuarz® HARD TRANSIT COLOUR (**0,8 kg/m²**)
3. MicroQuarz® HARD TRANSIT COLOUR (**0,8 kg/m²**)
4. Primer Finish (**0,04 kg/m²**)
5. Two layers of Finish W TRP (**0,12 kg/m²**) diluted with 10% water



_ **Floor** consumption

1. PrimerQuarz (**0,20 kg/m²**) + Mesh + MicroQuarz® HARD BASE (**1,60 kg/m²**)
2. MicroQuarz® HARD TRANSIT COLOUR (**0,8 kg/m²**)
3. MicroQuarz® HARD TRANSIT COLOUR (**0,8 kg/m²**)
4. Primer Finish (**0,04 kg/m²**)
5. Two layers of Finish W TRP RADIANT (**0,12 kg/m²**)



_ **Properties** of MicroQuarz®

- Anti-dust and resistance to pedestrian traffic
- The product does not dry in the bottle
- Easy to clean and maintain
- Ready to use
- Excellent adherence on any support
- Matte, satin and bright finish
- Decorative aspect
- Able to outdoors



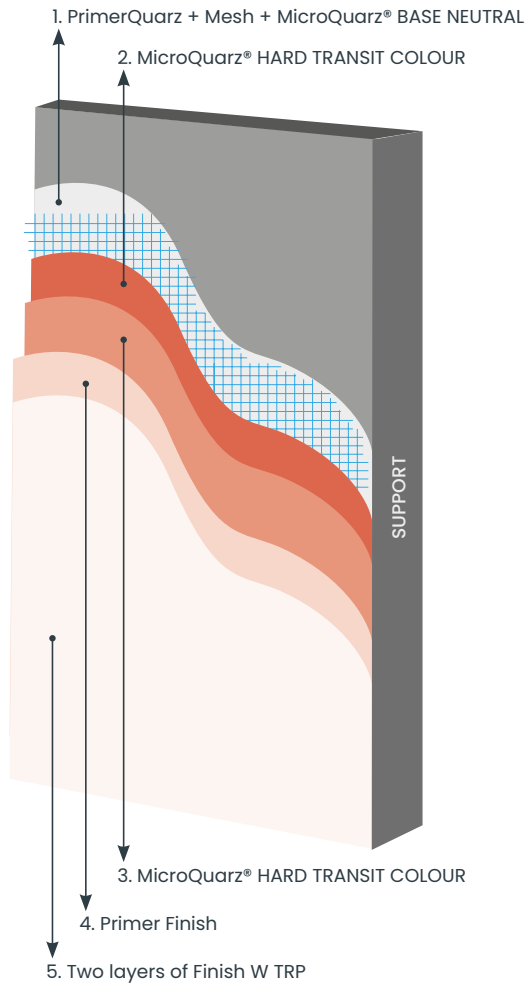
_ **Tools** needed

- HARD BASE to rigid steel trowel
- HARD TRANSIT to flexible steel trowel or rubber lip

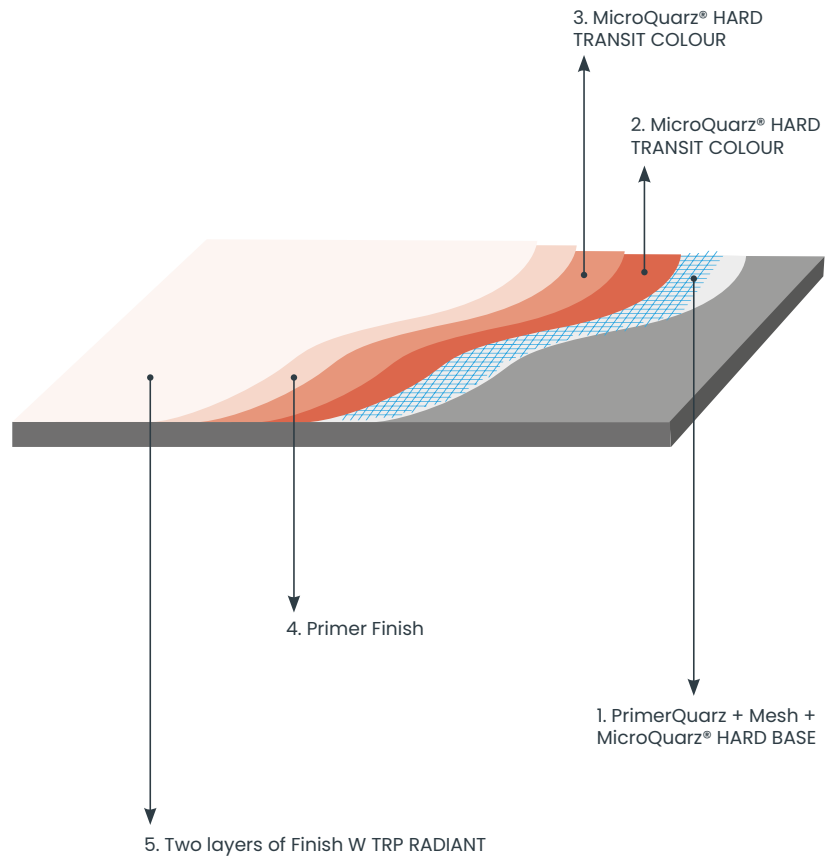


_Application schemes

Application scheme **walls** ∨



Application scheme **floors** ∨



Application system_ **MicroQuarz® HARD TRANSIT XL**



_Fields of **application**

Strength, resilience and natural heart in a single concept. MicroQuarz® HARD TRANSIT XL focuses on its mineral composition to achieve the most demanding results in a continuous coating.



_Wall consumption

1. PrimerQuarz (0,2 kg/m²) + Mesh + MicroQuarz® BASE NEUTRAL (1 kg/m²)
2. MicroQuarz® HARD TRANSIT XL COLOUR (0,9 kg/m²)
3. MicroQuarz® HARD TRANSIT XL COLOUR (1,1 kg/m²)
4. Primer Finish (0,04 kg/m²)
5. Two layers of Finish W TRP (0,12 kg/m²)



_Floors consumption

1. PrimerQuarz (0,2kg/m²) + Mesh + MicroQuarz® HARD BASE (1,6 kg/m²)
2. MicroQuarz® HARD TRANSIT XL COLOUR (1,1 kg/m²)
3. MicroQuarz® HARD TRANSIT XL COLOUR (0,9 kg/m²)
4. Primer Finish (0,04 kg/m²)
5. Two layers of Finish W TRP RADIANT (0,12 kg/m²) diluted with 10%-20% water



_Properties of MicroQuarz®

- Anti-dust and resistance to pedestrian traffic
- The product does not dry in the bottle
- Easy to clean and maintain
- Ready to use
- Excellent adherence on any support
- Matte, satin and bright finish
- Decorative aspect
- Able to outdoors



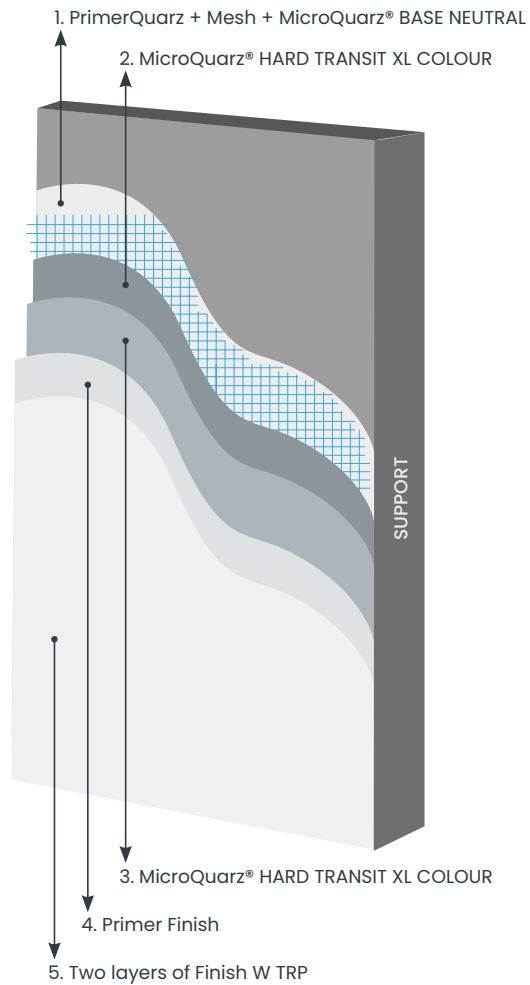
_Tools needed

- HARD BASE to rigid steel trowel (bevelled edges)
- HARD TRANSIT to flexible steel trowel
- Finish W TRP RADIANT to flexible plastic trowel

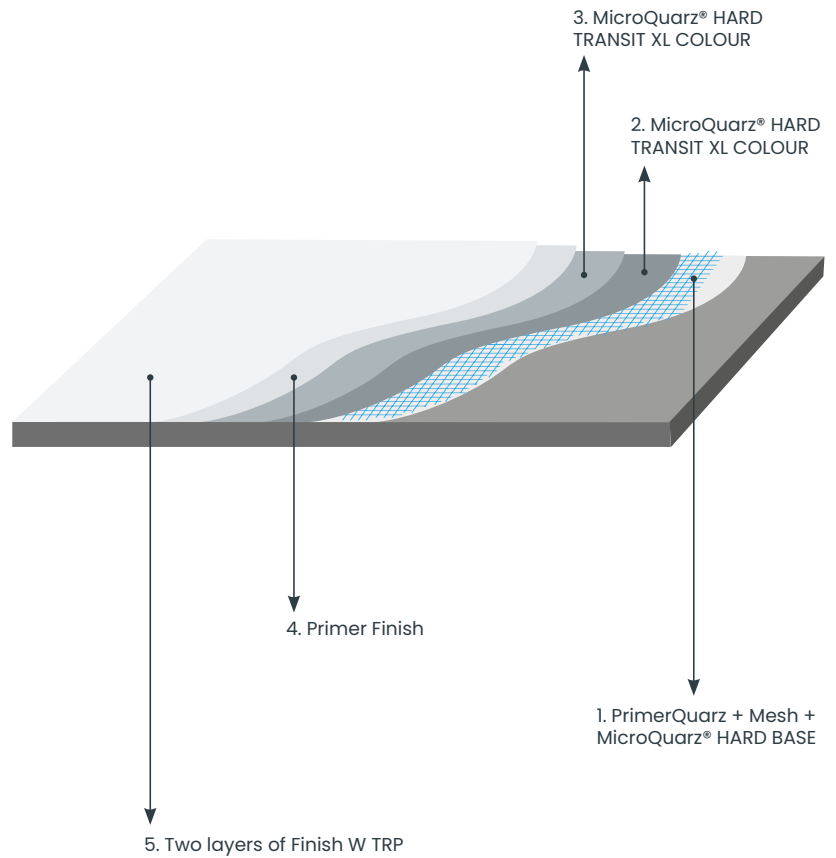


_Application schemes

Application scheme **walls** ∨



Application scheme **floors** ∨



Application system_ **MicroQuarz® Terra**



_Fields of **application**

MicroQuarz® Terra is ideal for the renovation of interior floors and walls, giving an elegant design similar in appearance to continuous terrazzo with which designs of a different nature can be achieved by mixing the product with different types of particles and minerals.



_ **Wall** consumption

1. PrimerQuarz (0,2 kg/m²) + Mesh + MicroQuarz® BASE COLOUR (1 kg/m²)
2. MicroQuarz® TERRA COLOUR + integrated particles (0,9 kg/m²)
3. MicroQuarz® TERRA COLOUR + integrated particles (0,9 kg/m²)
4. PrimerFinish (0,04 kg/m²)
5. Two layers of Finish W TRP (0,12 kg/m²)



_ **Floors** consumption

1. PrimerQuarz (0,2 kg/m²) + Mesh + MicroQuarz® HARD BASE (1,6 kg/m²)
2. MicroQuarz® TERRA COLOUR + integrated particles (0,9 kg/m²)
3. MicroQuarz® TERRA COLOUR + integrated particles (0,9 kg/m²)
4. PrimerFinish (0,04 kg/m²)
5. Two layers of Finish W TRP RADIANT (0,12 kg/m²) diluted with 10% water



_ **Properties** of MicroQuarz®

- Anti-dust and resistance to pedestrian traffic
- The product does not dry in the bottle
- Easy to clean and maintain
- Ready to use
- Excellent adherence on any support
- Matte, satin and bright finish
- Decorative aspect
- Able to outdoors



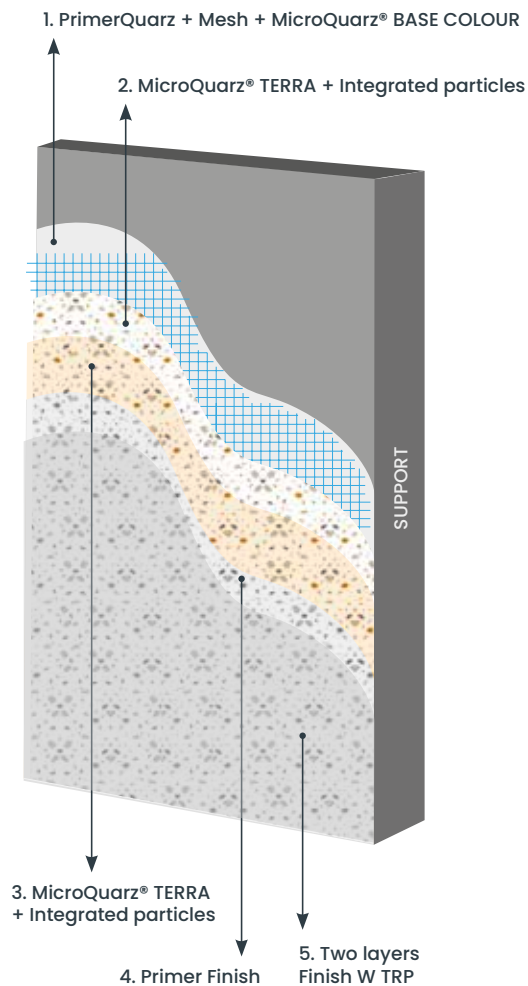
_ **Tools** needed

- HARD BASE to rigid steel trowel
- TERRA COLOUR + integrated particles to flexible steel trowel

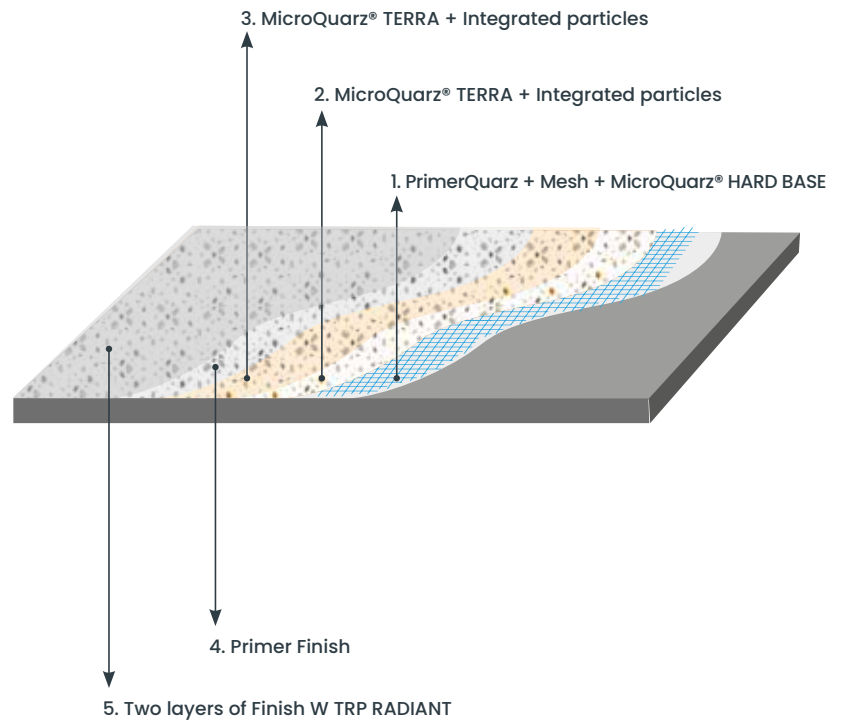


_Application schemes

Application scheme **walls** ∨



Application scheme **floors** ∨



Properties_**MicroQuarz®**



Chemical resistances

MicroQuarz® is resistant to any residential cleaning product, being less effective to prolonged exposure to acids such as salfuman, etching and any concentrate, when a spillage of this nature occurs, it is advisable to clean up quickly to avoid prolonged exposure that will affect **MicroQuarz®**. If necessary, the use of alkaline degreasers for polymeric flooring is recommended and is very effective with **MicroQuarz®**. Although the chemical resistance is superior to that of parquet flooring, in terms of abrasion resistance it is a type of flooring that is more similar to the parquet or laminate flooring family than to stoneware or porcelain flooring.



Compressive strength

MicroQuarz®, when properly applied, has a compressive strength of 89N, which indicates that it is resistant to pedestrian and vehicular traffic. However, we recommend avoiding sliding heavy furniture across the surface and protecting furniture such as table legs and chairs with weight-bearing pads to cushion the impact of the weight to facilitate a long life of the coating.



Easy repair

MicroQuarz® can be repaired on an ad hoc basis as long as the damage caused is sensitive to repair, otherwise it is advisable to restore the last coat of **MicroQuarz®** to renew the surface.



Passable at 24h

Once installed, **MicroQuarz®** can be walked on 24 hours after the last coat has been applied, however, from this point onwards it starts a 'curing' process to acquire the maximum adhesion, chemical and mechanical resistance, which can last between 15 and 30 days depending on the temperature and humidity in the environment. It is advisable to take special care with the abrasions mentioned above during this period of time.



Suitable for underfloor heating

MicroQuarz® is resistant to radiant heating screeds, because correctly adhered and having passed the recommended dilatation protocol, it accompanies the dilatations of this type of screed and is an excellent temperature transmitter.



Transparable

MicroQuarz® is breathable, so its installation is recommended in environments where it is intended to promote a healthy environment with walls free from the proliferation of germs and bacteria.



Anti-mold

MicroQuarz® is anti-mold, this property facilitates stability in situations where bacteria tend to proliferate such as in damp environments and bathrooms.



Pleasant to the touch

MicroQuarz® provides a pleasant touch in its finish, warm without being a cold surface, ideal for indoor situations where comfort is sought.



Waterproof

MicroQuarz® is impermeable to positive humidity, i.e. water that may spill or be deposited on the surface, making it suitable for situations in contact with water such as shower trays, bathtubs, shower walls, etc., always with the appropriate protective varnish for each situation.



Easy cleaning

MicroQuarz® is easy to clean, a damp cloth or a mop with a small amount of any traditional cleaning product is sufficient to clean the surface. Properly varnished, it does not leave stains from oils, tomatoes, wines and any traditional fluid that does not contain corrosive acids.



100% customisable and different finishes

MicroQuarz® is 100% customisable and different colours, textures and designs can be mixed with each other. MicroQuarz® can have a gloss, satin or matt final appearance.





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MINERAL COATINGS

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