

SEAL. PROTECT. PROLONG.

DISCOVER
SKETCH NANOTECHNOLOGIES
MINERAL TREATMENTS

 **sketch**minero
NANOTECHNOLOGIES



PROTECTOR OF THE BUILT HERITAGE !

We distribute innovative coatings which encourage the circular economy by offering **energy efficient, improved comfort and definitive treatments** for all types of buildings.

Our high-performance solutions work towards reducing our ecological footprint. Our treatments promote a more rational consumption of energy and natural resources, by promoting sustainable development and reducing waste.

Each of our products is not only “Green”, but also helps to reduce energy costs, extend life, or improve daily comfort.

With these “Smart Green” solutions, we can collectively change our footprint on the planet.

We take great pride in the environment, the quality of our products, the safety and satisfaction of our customers, and the well-being of our employees.

Sketch Nanotechnologies is a highly qualified technical and commercial team who remain available and attentive to all their clients.





Mineralisation

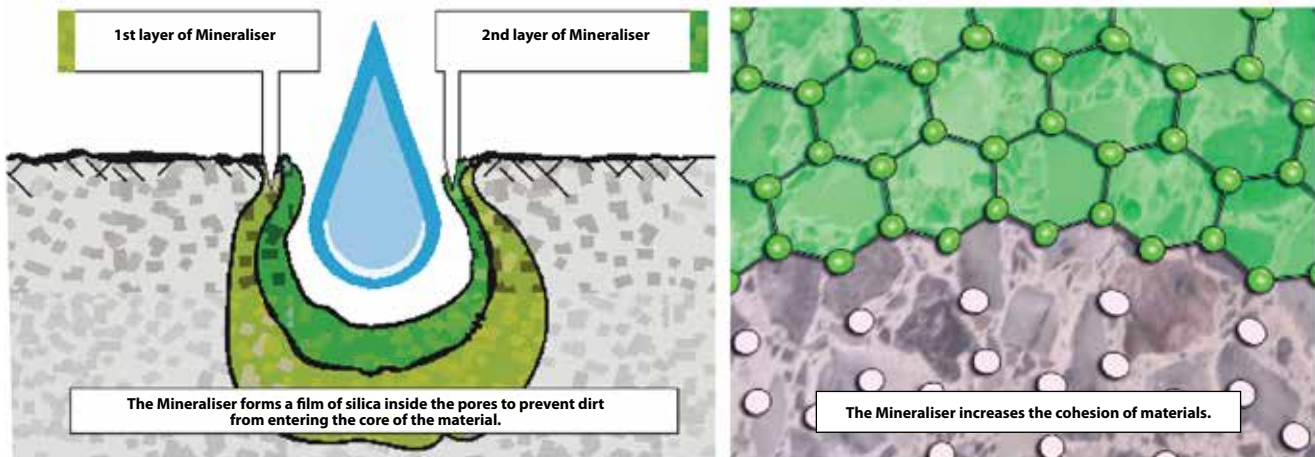
Mineral substrates such as concrete, stones, terracotta are more or less porous. This porosity weakens them in the face of climatic conditions and urban pollution.

SketchMinero mineralisers penetrate the substrates by capillarity¹, where they crystallize lime and form silica in the pores. The support is thus waterproofed, consolidated and more resistant to attack (frost, abrasion, stains, etc.).

The silica that forms during mineralisation has a hardness of 7 on the Mohs² scale, which is the equivalent of quartz.



Mineralisation explained:



Applications :

All porous mineral substrates can be mineralised: stones, terracotta, concrete, slate, granite, plaster, paving, tile joints, etc ...

1) Capillary networks of materials: Small tubular channel (the width of a hair, hence its name) present inside a material. The capillaries form a very branched network connecting together the small internal cavities in the material, thus giving it its character of greater or less porosity.

2) Invented in 1812 by German mineralogist Friedrich Mohs, the Mohs scale is used to determine the relative hardness of minerals from ten well-defined minerals of varying hardness. This scale (Nonlinear) is graduated from 1 to 10 (1 corresponds to talc, the weakest hardness, and 10 corresponding to Diamond, the strongest hardness). The principle of this scale is based on the fact that a mineral can only scratch another if its hardness is greater.

PETROLEUM CHEMISTRY

This chemistry must be
REAPPLIED:
Treatment has
to be repeated
regularly.

Petroleum based : which are
derived resins, varnishes,
silicones and bitumen etc...



MINERAL CHEMISTRY

The mineralization reaction is
PERMANENT :
Done once in
the life of
the material.

Cold liquid glass which pen-
etrates inside the materials by
capillarity action to mineralise it.

The ADVANTAGES

PROCESS : It allows the material to breathe.
Does not alter the skid resistance. Consolidate the
support. Waterproofing and non-film forming.

MAINTENANCE : Easy maintenance,
Stops the dirt and pollutants from encrusting,
Not sensitive to abrasion and cleaning products.

ENVIRONMENT : Does not produce any
decomposition rejections. Naturally absorbed into
the structure of the materials. Resistant to UV.

CONVENIENCE : A permanent treatment.
Keeps the natural aspect, Increases the life
expectancy of the materials.

REPUTATION : The mineralization leader
for over 20 years, with numerous work
references.

CUTTING EDGE : New generation of
mineralisers, back to natural and sustainable
protection. over 20 years, with numerous work
references.

REFERENCES :

Aéroports de Paris (95)
SNCF (44)
Tram d'Angers (49)
Autoroute (ASF, Cofiroute)
Ouvrages d'art de Bordeaux (33)
Le Grand Louvre, Musée de l'Orangerie (75)
Conseil général du Lot (46)
Conseil général de Gironde (33)





RESEARCH, STUDIES & DEVELOPMENT

Excited to offer our customers **the best products of treatment and cleaning**, we have developed a new generation of mineralisers and cleansers that are more respectful of health and the environment.

We have also developed the activity: **“Minero Specialties”**, which customizes formulas for very specific applications. For low or very porous materials, it is sometimes necessary to customize a product.

SUMMARY OF LABORATORY TESTS

Laboratory	Report N °	Product tested	Object of the test	Results
LERM	30939/4240E.LP	MINERAL AS	Resistance to freeze / thaw	Reduces chipping by 93%
LERM	30939/4240D.LP	MINERAL CM	Resistance to freeze / thaw	Reduces chipping by 93%
INSA	RPCC 027-2012a	MINERAL CM	Pressure / Against pressure	85% reduction in water penetration at 2 MPa = 20 bars
Ginger CEBTP	SNI4.A.0011-1	MINERAL CM	Tear resistance	+ 71% increase in stress and increase of cohesion from 0.5 to 7 mm
Ginger CEBTP	SNI4.A.0011-2	MINERAL AS	Tear resistance	+ 37% increase in stress and increase of cohesion from 1 to 6 mm
Ginger CEBTP	SNI4.A.0011-3	MINERAL AS	Slippage	Complies with standards (variation average of + or - 3%)
Ginger CEBTP	SNI4.A.0011-5	MINERAL CM	Slippage	Complies with standards (variation average of + or - 3%)
LERM	11.27348.008.01.B	MINERAL AS	Abrasion resistance	+ 21% resistance
LERM	11.27348.008.01.B	MINERAL CM	Abrasion resistance	+ 24,7 % resistance

We have at your disposal more than 30 test reports carried out in different laboratories on slippage, before and after treatment, resistance to pressure or against pressure, abrasion wear, resistance to tearing by direct traction, resistance chemicals, anti-graffiti test, stain resistance, etc.

The rapid test system that we have developed allows you in a few minutes to assess the average consumption of product required per coat for a square foot. Our "spoon" test involves applying a certain amount of water to a substrate to determine the material's rate of absorption.

POROSITY TEST OF A VERTICAL SUPPORT :

1) Fill a tablespoon with water.



2) Put the tip of the spoon in contact with the support.



3) Run the water along support.

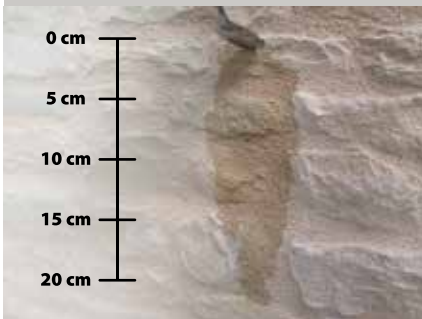


4) Measure the length of the flow of water :

From 0 to 20 cm (0 to 7.8 in):

200 g / m² : 1 litre = 5 m²

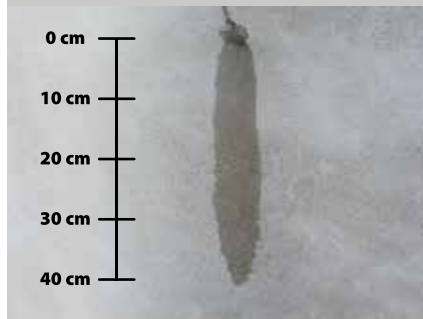
(7 ounces / sq ft : 33 ounces = 54 sq ft)



From 20 to 40 cm (7.8 in to 15.7 in):

140 g / m² : 1 litre = 7 m²

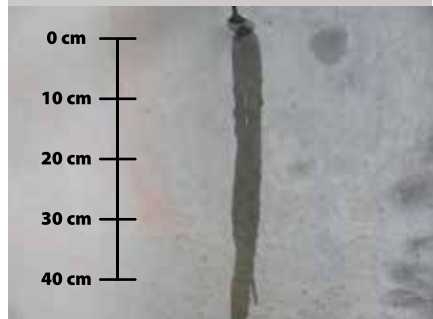
(4.9 ounces / sq ft : 33 ounces = 75 sq ft)



More than 40 cm:

100 g / m² : 1 litre = 10 m²

(3.5 ounces / sq ft : 33 ounces = 108 sq ft)



POROSITY TEST OF A HORIZONTAL SUPPORT:

1) Fill a tablespoon with water.



2) Put the tip of the spoon in contact with the support.



3) Run the water along support.



4) Time the water absorption time in the material :

From 0 to 3 minutes:

200 g / m² : 1 litre = 5 m²

(7 ounces / sq ft : 33 ounces = 54 sq ft)



From 3 to 5 minutes:

140 g / m² : 1 litre = 7 m²

(4.9 ounces / sq ft : 33 ounces = 75 sq ft)



More than 5 minutes:

100 g / m² : 1 litre = 10 m²

(3.5 ounces / sq ft : 33 ounces = 108 sq ft)





THE TREATMENTS

	MINERAL AS All Surfaces	MINERAL OLEO+ Natural Finish	MINERAL OLEO+ Wet Look	MINERAL CM Concrete	MINERAL RC Capillary Rise
Slates	✓ 1 Litre = 12 m ²				
Concrete		✓ 1 Litre = 8 m ²		✓ 1 Litre = 5 m ²	
Poured concrete	✓ 1 Litre = 5 m ²	✓ 1 Litre = 8 m ²		✓ 1 Litre = 5 m ²	
Decorative concrete (not waxed)	✓ 1 Litre = 8 m ²	✓ 1 Litre = 8 m ²			
Concrete deactivated	✓ 1 Litre = 5 m ²	✓ 1 Litre = 8 m ²		✓ 1 Litre = 6 m ²	
Dusty concrete				✓ 1 Litre = 3 m ²	
Bricks	✓ 1 Litre = 5 m ²	✓ 1 Litre = 10m ²	✓ 1 Litre = 12 m ²		
Porous tiles	✓ 1 Litre = 8 m ²	✓ 1 Litre = 12m ²			
Terracotta tiles	✓ 1 Litre = 5 m ²	✓ 1 Litre = 8 m ²			
Reconstituted paving	✓ 1 Litre = 5 m ²	✓ 1 Litre = 10m ²	✓ 1 Litre = 8 m ²		
Concrete surface hardener				✓ 1 Litre = 5 m ²	
Single-layer plasters					
Cement facade plaster				✓ 1 Litre = 3 m ²	
Fiber cement					
Tile joints	✓ 1 Litre = 12 m ²				
Marble	✓ 1 Litre = 12m ²	✓ 1 Litre = 12m ²	✓ 1 Litre = 12 m ²		
Basement wall				✓ 1 Litre = 5 m ²	
Granite wall					✓ 5 Litres / ml
Concrete block wall					✓ 3 Litres / ml
Brick walls					✓ 3 Litres / ml
Limestone walls					✓ 5 Litres / ml
limestone	✓ 1 Litre = 5 m ²	✓ 1 Litre = 10m ²	✓ 1 Litre = 10 m ²		
Terracotta tile					
Concrete tiles					

THE CLEANERS

	Roof / Facade / Terrace Cleaner (mosses, lichens, molds)	Hydro-Net urban stain remover (stains, grease, pollution, carbonation)
Slates	✓ 1 Litre = 8 m ²	
Concrete	✓ 1 Litre = 8 m ²	✓ 1 Litre = 10 m ²
Concrete Disabled	✓ 1 Litre = 8 m ²	✓ 1 Litre = 8 m ²
Bricks	✓ 1 Litre = 8 m ²	
Tiles + joints	✓ 1 Litre = 8 m ²	✓ 1 Litre = 12 m ²
Terracotta tiles	✓ 1 Litre = 8 m ²	✓ 1 Litre = 10 m ²
Reconstituted paving	✓ 1 Litre = 8 m ²	✓ 1 Litre = 10 m ²
Single-layer plasters	✓ 1 Litre = 7 m ²	
Facade plaster	✓ 1 Litre = 7 m ²	
in cement	✓ 1 Litre = 7 m ²	
Fiber cement	✓ 1 Litre = 7 m ²	
Brick walls	✓ 1 Litre = 7 m ²	
Limestone walls	✓ 1 Litre = 8 m ²	✓ 1 Litre = 10 m ²
Limestone floors	✓ 1 Litre = 8 m ²	✓ 1 Litre = 7 m ²
Granite floors	✓ 1 Litre = 8 m ²	
Terracotta tile	✓ 1 Litre = 8 m ²	
Concrete tiles		

* The cost price varies according to the consumption of product compared to the porosity. The consumptions indicated above are average consumptions.

NEW FOR 2022

SKETCHMINERO COLOUR is a high performance solution of polycrystals and mineral pigments designed to consolidate and waterproof vertical concrete and mortar-based surfaces (rough, sanded, smoothed, swept, micro-deactivated or sandblasted concrete), while giving them a natural, matt colour.

SKETCHMINERO COLOUR can be used both indoors and outdoors for the aesthetic correction or colour correction of concrete, decorative concrete, and mortar.

SKETCHMINERO COLOUR is a water-based solution.



APPLICATION :



Interior



Exterior

SKETCHMINERO COLOUR :

- Masks defects in the appearance of concrete (stains, differences in colour, repairs).
- Protects effectively against carbonation of concrete.
- Protects concrete against run-off and dirt penetration.
- Increases the surface hardness of the material.
- UV resistant (mineral pigments).
- Effective protection against graffiti.



Respect safety precautions.

The information contained in this leaflet is intended to help users. It is up to the users of our products to decide if the products are suitable for the job they want to do. In doing so, Sketch Nanotechnologies do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Sketch Nanotechnologies is the exclusive distributor of Minero in Canada.



A VARIETY OF SOLUTIONS



BLACK

RAL9017

CORAL

RAL3016

UMBRA GREY

RAL7022

GRAY

RAL7004

COPPER

RAL8004

GREEN

RAL6010

TELEGREY

RAL7045

CLEAR GREY

RAL9018

WHITE

RAL9010

CHOCOLATE

RAL8025

LIGHT IVORY

RAL1015

OYSTER WHITE

RAL1013

The RAL references are given as an indication. Colors obtained on porous mineral surfaces may vary slightly in colour.

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