

MP STONE SOURCE LLC

YOUR EXTRAORDINARY & CONTEMPORARY
TILE & STONE SOURCE

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Why 2CM?

BEYOND YOUR IMAGINATION

PRODUCT RANGE

SIZES: from 100x100mm to 1800x900mm

THICKNESS: 20mm (2cm)

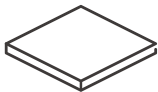





SURFACE: full polished / lappato / matte / rough finish

TECHNIQUES: screen printing / roller printing / ink-jet printing / dry powder and etc

TQC SYSTEM

In accordance with EN14411:2016 standard

TECHNICAL DATA

	 Thickness	20mm
	 Water Absorption	Less than 0.5%
	 Breaking Strength	≥10200N
	 Modulus of Rupture	Minimum ≥35N/mm ²
	 Static Coefficient of Friction	Dry: 0.87, Wet: 0.59



MP STONE SOURCE LLC 2CM



4 ADVANTAGES

Anti-slip R11

The Anti-slip of our 2cm outdoor tile reaches R11 ,closed to the natural stone.



High Breaking Strength

The breaking strength of our 2cm outdoor tile reaches 10200N while that of natural stone must be with thickness of 4cm.





• Natural Stone Texture

Since natural stone is becoming increasingly scarce, replacements with high performance than them have to be used in outdoor places, KITO 2cm outdoor tiles is up to 20mm, they are natural stone texture.

• Full Body

2cm thick brick of calcined KITO and high pressure pressing, component technology, dense texture, surface hardness and stone polishing can be compared through the GB/T3810.3 testing, bibulous rate is less than 0.5%, good wear resistance.

4 USAGE , EASY TO MANAGE AND MOVE

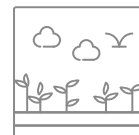


- 2cm thick brick has a wide range of applications, and can be laid on grassland, trays, cement slurry, gravel and gravel foundation;
- Such as brick under the wire, pipe, can be used to set up the tray tiles, convenient pipeline maintenance brick, hole wall does not need tedious work;
- The installation and operation are simple, and the non professionals can perform construction maintenance.



APPLICATION ON GRASS





①



K0603704DAZ Cement
600×600×20mm

②



K0606501DAZ Blue Stone
600×600×20mm

③



K0606419DAZ Cement
600×600×20mm

④



K0603517DAZ Ales
600×600×20mm

APPLICATION ON GRAVEL





①



K0603525DAZ Ales
600×600×20mm

②



K0606533DAZ Pastoral
600×600×20mm



2

VILLA BALCONY



1



①



K0603518DAZ Ales
600×600×20mm

②



K0606503DAZ Basalt Stone
600×600×20mm



③



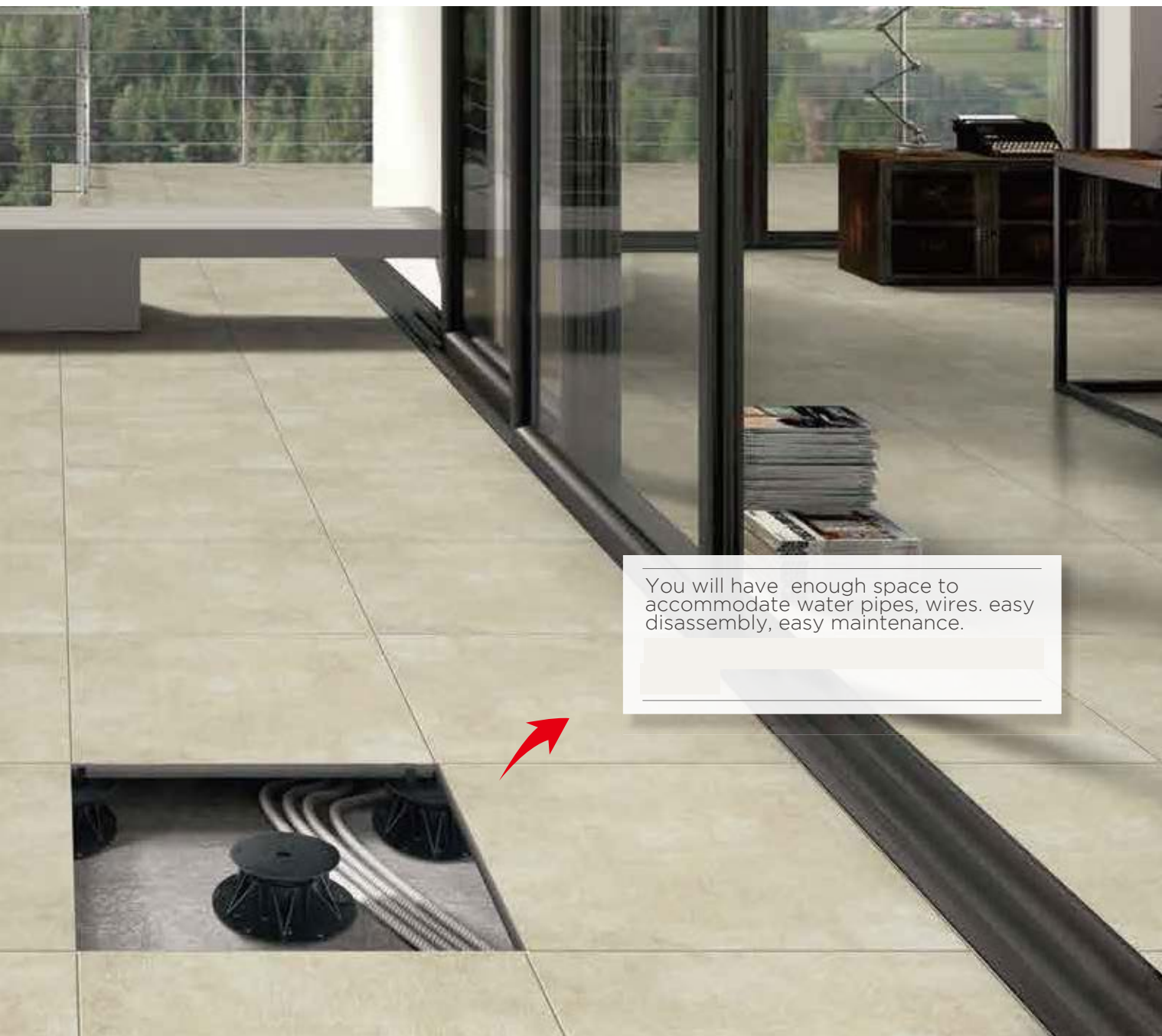
K0606530DAZ Pastoral
600×600×20mm



K0603519DAZ
600×600×20mm

Ales

KITO 2cm tiles perfectly fit for home outdoor with swimming pool, balcony, roof and so on. To use the adjustable plastic pedestal.



ADJUSTABLE PLASTIC PEDESTAL

2cm outdoor mountings



S1 (h 35-36mm)



S2 (h 60-80mm)



Effect display

OUTDOOR APPLICATION





①



K0606507DAZ Sand Stone
600×600×20mm

②



K0606501DAZ Blue Stone
600×600×20mm

③



K0603518DAZ Ales
600×600×20mm

④



K0603525DAZ Ales
600×600×20mm

SWIMMING POOL





①



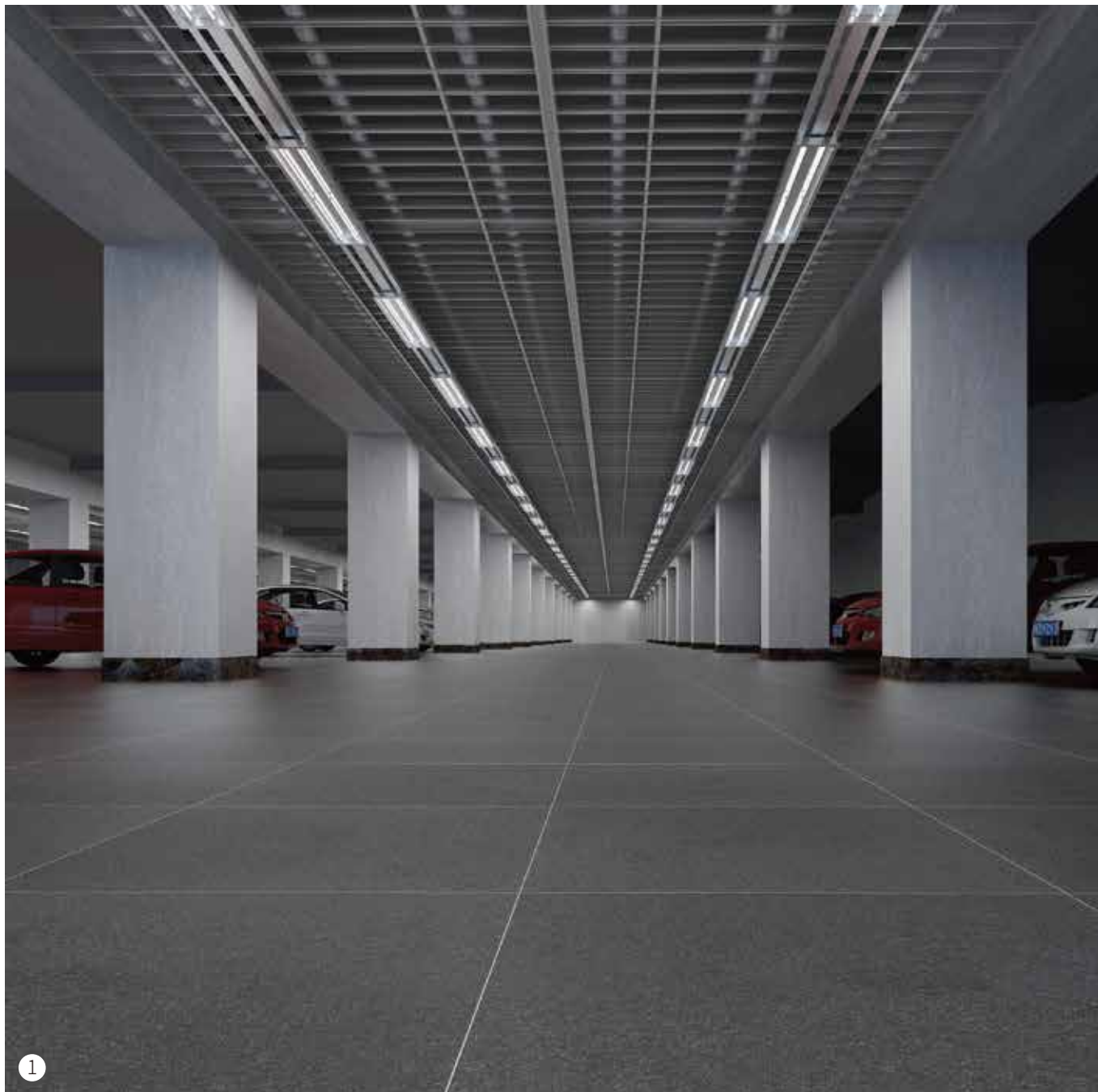
K0603704DAZ Cement
600×600×20mm

②

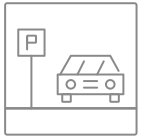


K0606418DAZ Slate Stone
600×600×20mm

PARKING



1



①



K0606033DAZ Basalt Stone
600×600×20mm

②



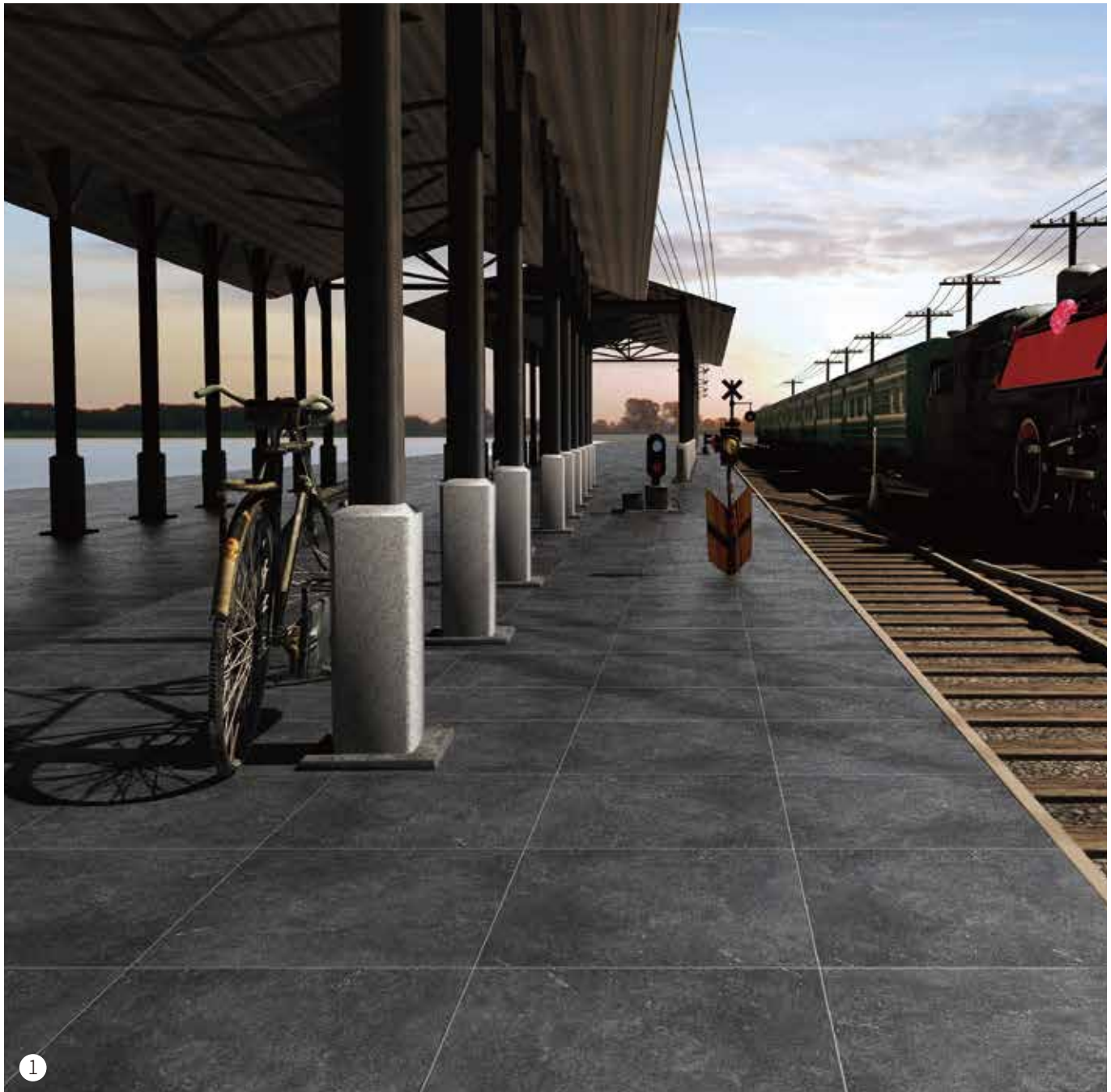
K0606419DAZ Cement
600×600×20mm

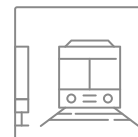


KITO 2cm thick
brick resistant
super strong, laying
on cement more
solid.

2

TRAFFIC SITE





2

①



K0606418DAZ Slate Stone
600×600×20mm

②



K0603704DAZ Cement
600×600×20mm

③

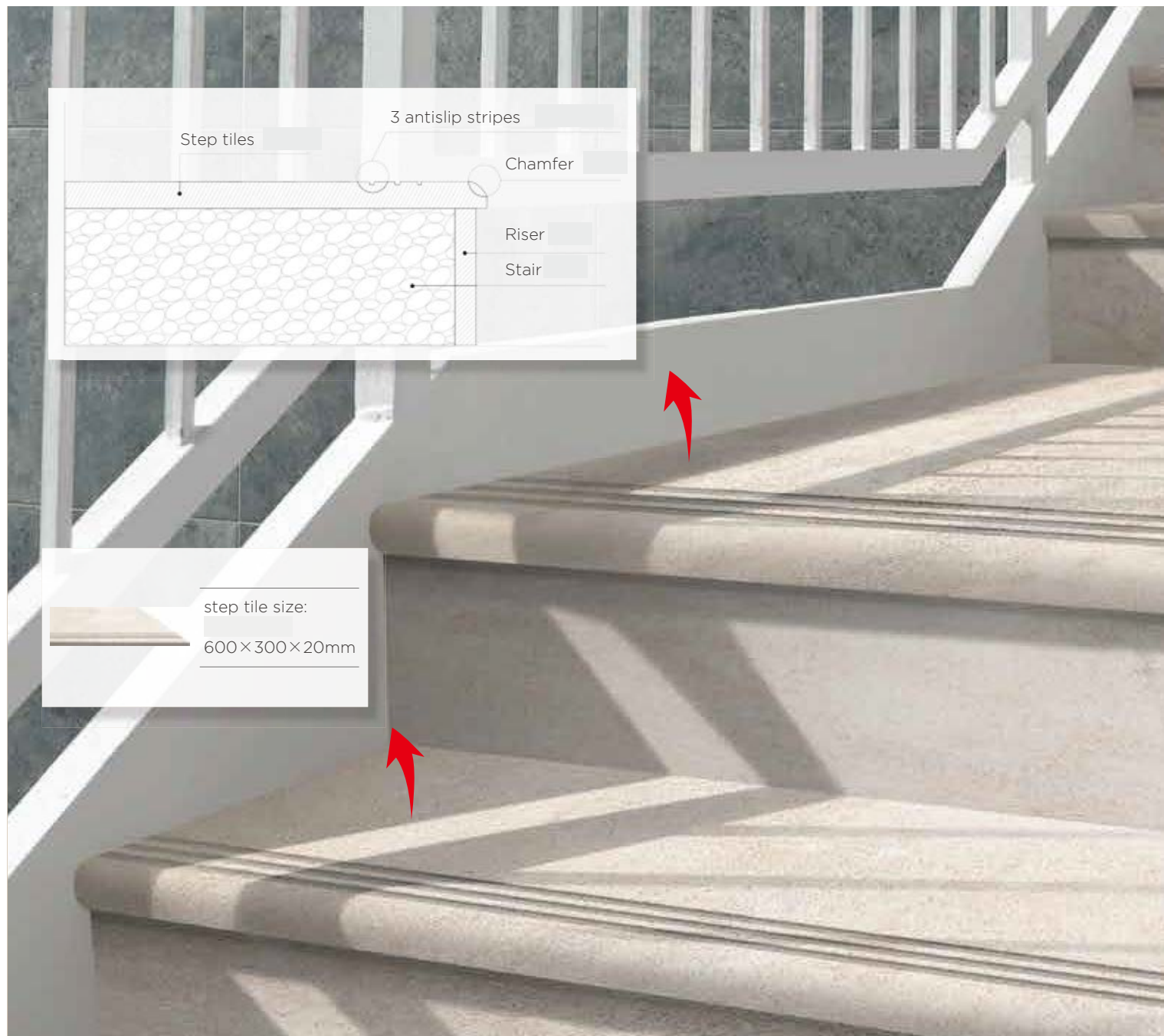


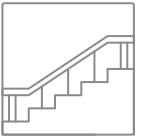
K0603525DAZ Ales
600×600×20mm



3

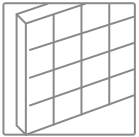
STAIRCASE STEPS





EXTERIOR WALL CLADDING





①



K0603704DAZ Cement
600×600×20mm

②



K0603525DAZ Ales
600×600×20mm

③



K0606503DAZ Basalt Stone
600×600×20mm



SPECIAL STRUCTURE

Adjustable Plastic Pedestal



S1 (h 35-36mm)



S2 (h 60-80mm)



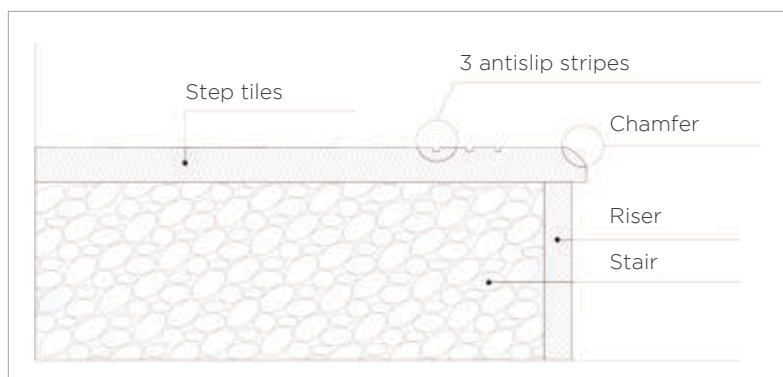
Effect display

Swimming Pool Brick



600×300×20mm

Staircase Steps



BASALT STONE



K0606503DAZ
600×600×20mm



K0606504DAZ
600×600×20mm



K0606529DAZ
600×600×20mm



K0606033DAZ
600×600×20mm

CEMENT



K0603704DAZ
600×600×20mm



K0606419DAZ
600×600×20mm



K0606420DAZ
600×600×20mm

PASTORAL



K0606530DAZ
600×600×20mm



K0606533DAZ
600×600×20mm

ALES



K0603516DAZ
600×600×20mm



K0603517DAZ
600×600×20mm



K0603518DAZ
600×600×20mm



K0603519DAZ
600×600×20mm



K0603525DAZ
600×600×20mm

SAND STONE



K0606507DAZ
600×600×20mm



K0606508DAZ
600×600×20mm



K0606511DAZ
600×600×20mm



K0606527DAZ
600×600×20mm



K0606528DAZ
600×600×20mm

SLATE STONE



K0606515DAZ
600×600×20mm



K0606418DAZ
600×600×20mm

BLUE STONE



K0606501DAZ
600×600×20mm



K0606502DAZ
600×600×20mm

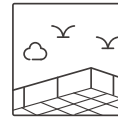
APPLICATION



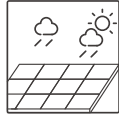
Application on grass



Application on gravel



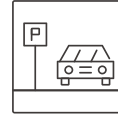
Villa balcony



Outdoor Application



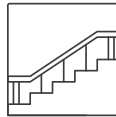
Swimming pool



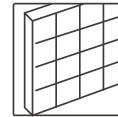
Parking



Traffic site









Staircase steps




Exterior wall cladding

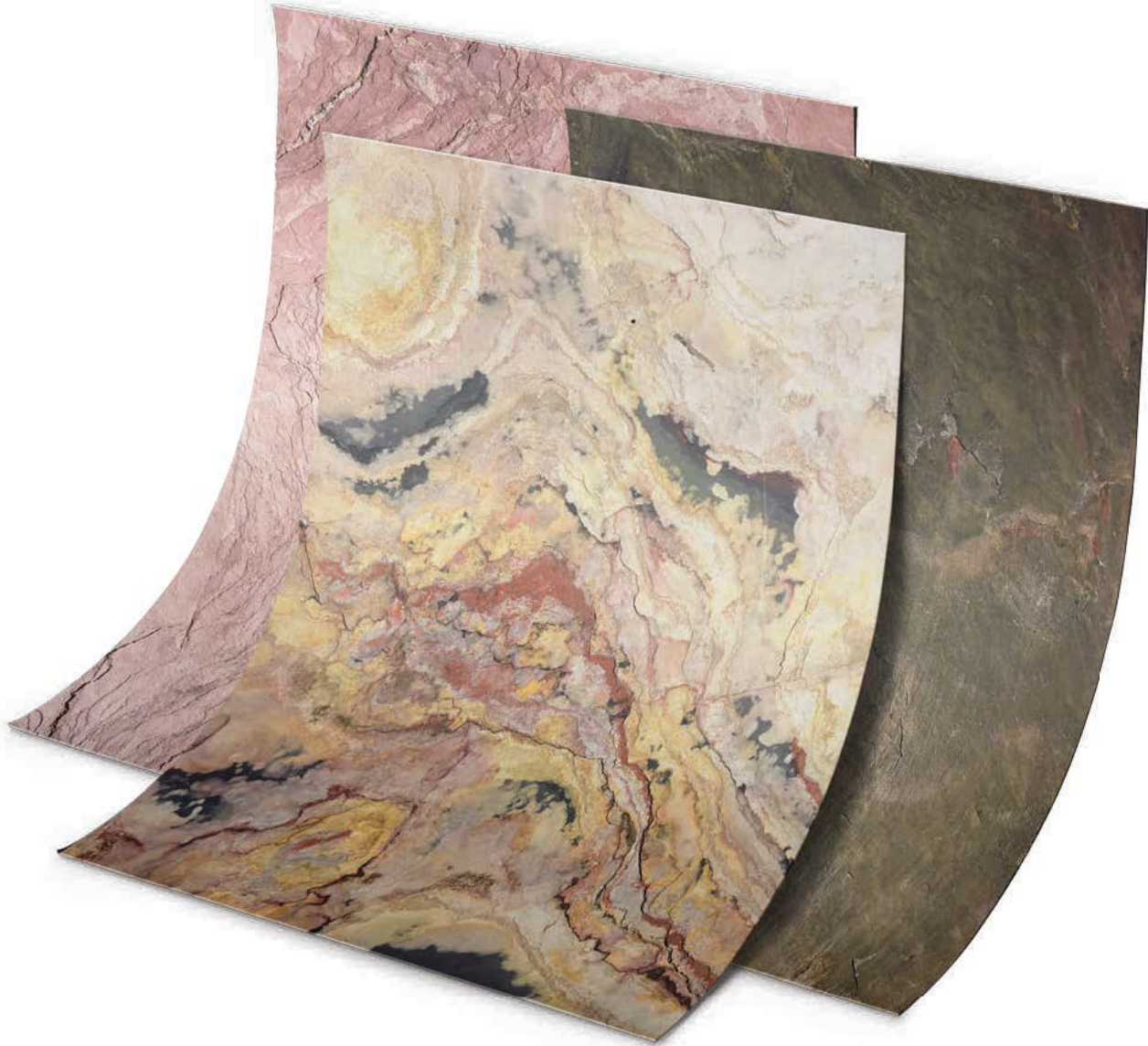
PACKING INFO

 Ctn size	600×600×20mm	
 Pcs/Ctn	2	
 M ² /Ctn	0.72	
 Kg/Ctn	34	

 Pallet size	1.1x1.1m	1.2x0.8m
 Ctn/Pal	40	32
 M ² /Pal	28.8	23.04
 Kg/Pal	1360	1088

 Ctn/Cont	800	
 Pcs/Cont	576	
 Kg/Cont	21000	

NATURSTEIN. HAUCHDÜNN.



The product: Skinrock® consists of a split layer of natural slate or quartzite and a polyester fiberglass backing. The natural stone with its natural colors makes every square centimeter unique.

Skinrock® can be used inside and outside. It is a versatile, lightweight and easy to handle plate with a variety of surfaces and mounting options.







DEKOR SHINING HILL



Technical Data Sheet

Skinrock[®] Basis

Use	Can be used inside and outside. Versatile, lightweight and easy to handle plate with a variety of surfaces and mounting options.
Product	The product: Skinrock [®] consists of a split layer of natural slate or quartzite and a polyester fiberglass backing. The natural stone with its natural colors makes every square centimeter unique.
Surfaces	<p>Slate: Rustic Pink, Wood Root, Multi Pink, Jungle Fire, Rooster Multi, Purple Grey, Steel Black, Golden Drops, Mother Earth, Fresh Earth, Lime Withe</p> <p>Quartzite: Shining Tree, Golden Shine, Ocean Green, Shining Hill, Shining Leaves and Cooper Natural</p>
Color deviation	Slate / Quartzite is an absolutely timeless, natural product that has evolved over millions of years. Deviations in the color scheme and structure may therefore occur. For large areas contact us to get a color that is as homogeneous as possible.
Technical data	<p>Weight per m² variable</p> <p>Natural Stone ca. 1.50 kg</p> <p>Polyester / Resin 0.80 kg</p> <p>Fiberglass 0.50 kg</p> <p>Total weight ca. 2.80 kg/m²</p>
Expansion	0.5 – 0.8 mm with a temperature fluctuation of approx. 90°C
Test result according to ASTM C-121	Water absorption with unsealed surface + 2.50%
Fire Behavior	According to the standard DIN 4102 part 1 building material class B2 EN 13823 RF 2 (VKF guidelines) EN 13823 C-s2, d0 (Orienting)
Vapor permeability	According to the standard SN EN 1931
Frost and thaw salt resistance	According to the standard SIA 262/1:2013
Health	<p>Do not contain toxins</p> <p>Emission test according to AgBB 2015</p> <p>Glue data sheet and declaration of non-objection are to be requested[^].</p>

The specification of the characteristic values are average values or approx. Values. Due to the raw materials used in our products. These may differ slightly from the stated values of a single delivery without affecting the suitability of the product.

Further information

Delivery sizes	Standard size Special format Packaging Storage	1200mm x 2500 mm / 1200mm x 600mm on demand horizontal stacked store in a dry Place
Processing	Processing temperatures between 18 and 25°C are recommended. Storage dry.	
Surface protection	It is recommended to use the products of Skinrock® AG. Furthermore, it is recommended to use the surface sealers of Skinrock® AG.	
HS-Code epoxy resin	390730	
HS-Code fiberglass	701940	
HS-Code natural stone	680299	

Certificates and Terms and Conditions are available upon request.

Installation recommendations for SKINROCK® Natural Stone Panels

Referring to the clarifications by our application technology, we gladly confirm our installation recommendations below.

Application area Skinrock® natural stone panels

Skinrock® Basic type S (natural stone / fibreglass / epoxy resin / quartz sand)

Natural stone panels with rear coated in quartz sand as wall covering indoors and for limited use outdoors.

Skinrock® Basic type N (natural stone / fibreglass / epoxy resin / colour pigments)

Natural stone panels for refining kitchen cabinets, furniture, etc.

Skinrock® Translucent (natural stone / fibreglass / epoxy resin)

Natural stone panels with translucent background. Is applied to acrylic glass or glass indoors and lit from behind.

Skinrock® Basic Plus (sealing / natural stone / fibreglass / epoxy resin / quartz sand)

Natural stone panels with an applied seal and rear coated in quartz sand. Is used as flooring indoors and for limited outdoor use. In exposed areas (bathroom, outdoors), the format is limited to 1200 x 1200 mm at most. We recommend the Skinrock®-Basic Plus flooring only in private buildings. We recommend against use in public areas.

Standard formats

All patterns are available in two standard formats

2500	x	1200	mm	(type S / type N / Translucent / Plus)
1200	x	600	mm	(type S / type N / Translucent / Plus)

Substrates

Nearly all substrates are suitable as substrates, such as:

- Base plaster: Cement plaster and lime-cement plaster
- Drywall panels
- Masonry, concrete and screeds
- Screeds with special binders
- Old natural, artificial and ceramic floorings
- Metal, wood, plexiglass, acrylic glass
- Styrofoam, trough carriers, composite elements of expanded or extruded polystyrene with mortar coating and tissue arming

Substrates must be dry, firm, load-bearing, form-stable, level, crack-free and free of dust, dirt and other separating agents. Old floorings that are not firmly adhering and weakly bonded coats of paint that are not firmly adhering, as well as loose plasters and wallpapers, must be removed.

The substrate inspection must be performed mandatorily before every work step.

Base plaster surfaces

From a panel size of > 1600 cm² onwards, we recommend using a basic plaster with a compression resilience of > 6 N/mm² according to SIA 242.

Concrete surfaces

To remove adhesion-reducing components, such as cement glue layers, we recommend that you use a mechanical substrate preparation procedure such as sand-blasting, staking or grinding by PKD cup wheel.

All chemical after-treatment media and cement glue layers must be removed. This creates an enlarged surface structure with good grip and thereby ensures an optimal adhesive bond.

Metal surfaces

Must be roughened with metal grinding paper and cleaned with acetone.

Plexiglass and acrylic glass surfaces

Must be roughened with grinding paper. A surface structure with good grip must be achieved.

Regarding readiness for covering and for any installation work, observe the manufacturer's information for the substrates.

Approved residual moisture for installation of Skinrock <0.5 mass-CM% on any substrate.

Base plaster surfaces

Permitted residual moisture

- Cement base plaster ≤ 0.5 mass-CM%
- Lime-cement base plaster ≤ 0.5 mass-CM%

Concrete surfaces

Concrete age at least ≥ 2 months – without primer. If ≤ 2 months, a steam-diffusion-barrier epoxy resin primer must be applied in two work steps. For the second work step, the primer is sanded while still wet with an excess of quartz sand.

Recommended products: **Primer MF** or **Primer MF EC Plus**

Cement-bound screeds

Required minimum residual moisture ≤ 0.5 mass-CM%. If the residual moisture is ≥ 0.5 mass-CM%, a steam-diffusion-barrier epoxy resin primer must be applied in two work steps. For the second work step, the primer is sanded while still wet with an excess of quartz sand.

Recommended products: **Primer MF** or **Primer MF EC Plus**

Calcium-sulphate-bound screeds

Permitted moisture ≤ 0.5 mass-CM% - with and without floor heating.

According to SIA 251:2008, a cleaning polish must be performed. This is best implemented with a paper K 60. Subsequently, fine dust must be removed thoroughly with an industrial vacuum cleaner. To bind residual dust, the calcium-sulphate-bound screed is primed with an epoxy resin in one work step.

Recommended products: **Primer MF** or **Primer MF EC Plus**

Resin-treating cracks

Cracks must be closed force-locking. We recommend **EPORIP**, **EPORIP TURBO** or **EPORIP SCR** and shaft connectors for this application.

Sealing work

In areas subject to moisture, moisture-resistant substrates must be used and sealing is required before installation. The composite seal takes place with **ULTRABOND ECO PU 2K** or **KERALASTIC T**, in connection with sealing tape and sealing tape accessories (MAPEBAND EASY or MAPEBAND GREY and accessories).

Sealing tape, inner and outer corners are bonded with **ULTRABOND ECO PU 2K** or **KERALASTIC T** and completely grouted over or covered. For sealing feedthroughs for sanitary connections, the **MAPEGUARD PC** sleeves must be used.

A composite seal must be executed according to the specifications of the leaflet of the Schweizerischer Plattenverband (SPV leaflet: Verbundabdichtungen unter Keramik und Natursteinbelägen im Innenbereich (composite sealing under ceramic and natural stone floorings indoors)) that reflects the current state of the art.

After curing of the seal, panels can be placed with the polyurethane glue (**ULTRABOND ECO PU 2K** or **KERALASTIC T**).

Situation

The following should be observed for professional production of floorings with large natural stone panels.

The substrates must meet increased requirements of levelness and size accuracy.

Wall surfaces

Irregular substrates must be levelled with a suitable compensation size before installation.

Recommended products: **PLANIPATCH**, **PLANITOP FAST 330**

Floor surfaces

In order to meet the levelness requirements, the floor areas are to be levelled with a floor grouting mass.

Recommended products: **ULTRAPLAN ECO PLUS**, **ULTRAPLAN MAXI**, **FIBERPLAN**

Installation work

Substrates must be dry, firm, load-bearing, form-stable, level, crack-free and free of dust, dirt and other separating agents. Old floorings that are not firmly adhering and weakly bonded coats of paint that are not firmly adhering, as well as loose plasters and wallpapers, must be removed. The rear of the Skinrock® panels must be free from dust, dirt and other separating agents. Skinrock® panels must be installed in the combined procedure (floating buttering). We recommend placing the serrations in parallel to each other in floating buttering.

This procedure is particularly important because the panels can no longer be pushed into the glue bed due to their size, but must be pressed on. The notched trowel must be chosen to ensure good wetting and installation with as few hollows as possible; in particular pointed teeth or a notched trowel with a V-shape are extraordinarily suitable. We recommend a serration of 4 mm.

On the rear of the panel, an initial covering contact layer, among others, levelling the irregularities of the Skinrock® panels' backs, is applied in the same direction as on the substrate using the installation glue; it is then applied with the glue using a notched trowel in the same direction as on the substrate. Subsequently, the natural stone panels are firmly pressed into the adhesive bed.

Use of press-on rollers is recommended.

We recommend **ULTRABOND ECO PU 2K** or **KERALASTIC T** as installation glue.

ULTRABOND ECO PU 2K is a two-component, very low-emission, solvent-free, highly elastic polyurethane-based glue. It can be used indoors and outdoors, on any substrate, without primer.

Important note: Do not use on moist substrates or with moisture acting from the rear without a steam-diffusion-barrier epoxy-resin primer.

Installation work Skinrock®-Translucent

To avoid impairment of the appearance of Skinrock®-Translucent panels, we recommend transparent bonding with light-permeable products **MAPEFLEX MS CRYSTAL** or **KERAPOXY DESIGN no. 700**.

Skinrock®-Translucent panels must be installed in the combined procedure (floating buttering). We recommend placing the serrations in parallel to each other in floating buttering. This procedure is particularly important because the panels can no longer be pushed into the glue bed due to their size, but must be pressed on. The notched trowel must be chosen to ensure good wetting and installation with as few hollows as possible; in particular pointed teeth or a notched trowel with a V-shape are extraordinarily suitable.

The rear of the Skinrock® panels must be free from dust, dirt and other separating agents.

On the rear of the panel, an initial covering contact layer of the installation glue is applied first, levelling the irregularities of the back of the Skinrock®, applied in the same direction as on the substrate; it is then applied with the glue using a notched trowel in the same direction as on the substrate.

For transparent bonding, the serrated glue must be smoothed by turning the notched trowel (smooth side) after the glue is applied by notched trowel. This way, the panels can be embedded without any air bubbles. Subsequently, the natural stone panels are firmly pressed into the adhesive bed. Use of press-on rollers is recommended.

Joints

After installation, wait for at least 24 hours before starting to grout the joints. We recommend using a polymer-based Skinrock® Grout for this. Our products **ULTRACOLOR PLUS** or **KERACOLOR FF** can be used mixed with **FUGOLASTIC**. For large natural stone panels, joint grouting in the injection method is recommended, i.e. joint material is filled into a mortar pump and joint grouting is then performed manually or with a machine.

Joint grouting by conventional surface washing is not recommended.

In areas subject to moisture, we recommend installation with a minimum joint width of 2 mm.

Elastic joints

We recommend the joint mortar **MAPESIL LM**.

MAPESIL LM is a single-component, low-odour, neutrally linking silicone sealant to close elastic joints in natural stone floorings.

Profit from our many years of experience and sustainable system solutions. If you have any questions, contact our technical advisors in your region.

Our information can only be general information. Due to working conditions outside of our influence and the diversity of materials, no claims can be derived from this information. In doubt, we recommend performing sufficient own tests. Warranty can only be assumed for the always consistent quality of our products. Additionally, the information in the respective applicable technical leaflets for the above products (www.mapei.ch) and the currently applicable provisions, standards and rules of the art must be observed for processing.

With kind regards,

MAPEI SUISSE SA



Mathias Donauer

ppa. Area manager ceramics and
natural stone products

MAPEI SUISSE SA



Pirmin Nünlist

Technical sales advisor

Leaflet Skinrock®

Area of application

Skinrock® Basic type S (natural stone / fibreglass / epoxy resin / quartz sand)

Natural stone panels with rear coated in quartz sand as wall covering indoors and for limited use outdoors.

Skinrock® Basic type N (natural stone / fibreglass / epoxy resin / colour pigments)

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Skinrock® Translucent (natural stone / fibreglass / epoxy resin)

Natural stone panels with translucent background. Is applied to acrylic glass or glass indoors and lit from behind.

Skinrock® Basic Plus (sealing / natural stone / fibreglass / epoxy resin / quartz sand)

Natural stone panels with an applied seal and rear coated in quartz sand. Is used as flooring indoors and for limited outdoor use. In exposed areas (bathroom, outdoors), the format is limited to 1200 x 1200 mm at most. We recommend the Skinrock®-Basic Plus flooring only in private buildings. We recommend against use in public areas.

Required tools

Spirit level / alignment bar or laser, angle grinder with diamond cutting disc, dust mask, goggles, drilling crown, notched trowel 4 mm, trowel, roller or brush, press-on roller, bucket, sponge and hot-air blower.

Cutting

Skinrock® can be easily cut with a wet mill, plunge-cut saw or angle grinder with diamond cutting disc. A suitable dust mask must be worn for this. At concealed cutting edges, the cut may also be made with sheet scissors. A low ambient temperature reduces deformation capacity of the material.

Glues

2-component PU glue is required as glue for installation of Skinrock®.

(Mapei Ultrabond Eco PU 2K or Benfer Jolly from Benfer)

Skinrock® panels were installed by floating-buttering. For hollow-free installation, the panel then must be pressed on from the middle outwards with a press-on roller.

To facilitate removal of glue residues and joint material during processing, we recommend previously impregnating the cleaned Skinrock® panel with Skinrock® Protect before installation. Impregnation can be applied by roller, brush, airless or a soaked cloth. Glue residues must be removed at once with a moist sponge.

The rear of the Skinrock® must be cleaned with Skinrock® Cleaner before installation.

No objects (towel holder, soap dispenser, etc.) must be glued to the Skinrock® panels.

Approved residual moisture for installation of Skinrock®: <0.5 mass-CM% on all substrates.

Colour deviations

Our natural stone veneers are only made from fissile materials. They are made of different deposit layers and therefore have different colours between the different layers. Therefore, each veneer is one of a kind. Of course, we always try to deliver only panels of similar colours and structures. Therefore, you must inform us of your colour and structure wishes in particular for larger cohesive areas. The processor must look at the Skinrock® panels before installation with the customer and review them for accuracy. After installation, the claim to exchange of the panels expires.

Impregnation, cleaning and care

The Skinrock® panels must be cleaned thoroughly with clean water and Skinrock® Cleaner after installation. Once the panels are dry, they are impregnated with Skinrock® Protect or Skinrock® Protect Premium.

Depending on the stress on the material, in particular in exposed areas, impregnation must be repeated at intervals.

Natural stone surfaces should regularly be cleaned moist in spite of impregnation. For the maintenance cleaning we recommend use of Skinrock® Care.

Regular care will keep the natural stone's colours and structures.

Do not use any abrasives, lubrication soap, acid-containing cleaners and strongly alkaline cleaners (grease solvents) in any case.

Warranty

The warranty claims under sales law require a defect in the sense already described (Naturstein-Verband Schweiz). The relevant time for assessment of defectiveness of the object shall be the time of passing of risk (on this, see sect. 185 and sect. 220 OR). The purchaser shall inspect the goods after receipt. It must inform the seller of any defects at once (report of defects, sect. 201 para. 1 OR). If it does not do so, the object is deemed approved purs. to sect. 201 para. 2 OR. The report must be filed at once after discovery if any defects occur at a later time. Liability of the seller is not an option if the purchaser knew the defect or should have known it (sect. 200 OR). Expiration for the movable object is provided for in sect. 210 para. 1 OR and for properties in sect. 219 para. 3 OR. The deadline shall commence on delivery of the purchased object. According to sect. 199 OR, the seller's liability may also be contractually restricted or even excluded.

Skinrock AG shall not assume any warranty for bonding of the panels. Any liability is refused in case of improper installation or impregnation.

CULTURED / LEDGER STONE

COLORS AVAILABLE



CULTURED / LEDGER STONE

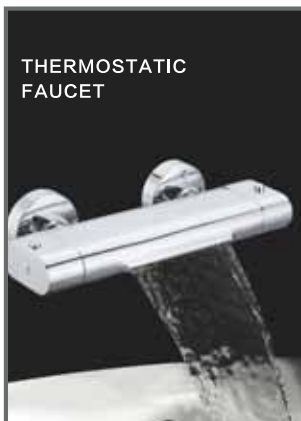
COLORS AVAILABLE



BATH & SHOWER DOORS



BATH & SHOWER FAUCETS



BATH TUBS



KITCHEN FAUCETS



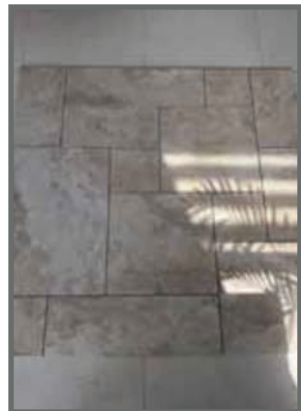
GAS RANGE & RANGE HOODS



LINEAR DRAINAGE SYSTEMS



1CM TILES



LARGE MARBLE/GRANITE SLABS

