

DUNE



Technical Information

Megalos



WARNING: Carefully follow these instructions to ensure correct installation.

- Installation should be carried out by a qualified professional.
- Before installing ensure that the material is in perfect condition. Make sure you check the colours, finishes and thicknesses because **DUNE will not accept any claims or returns of material after it has been installed.**
- Before each stage, on one part test all of the materials and tools to be used and evaluate the final finish of the test. Should you fail to achieve the desired results do not continue with the installation, and consult our sales team.

1. PROPER PREPARATION OF SURFACE

The wall must be firm, levelled, dry and clean. Uneven surfaces greater than 2 mm must be levelled with specific products. All cracks and imperfections should be repaired, so that the wall is completely smooth. The moisture content of the surface must be under 2%.

2. INSTALLATION MATERIAL

For a correct installation, several factors must be taken into account:

Material kind of the wall to be tiled (synthetic pannels, plaster, wood, etc.), wall stability, environmental conditions, kind of surface to be covered, speed of carrying the work, etc.

All the above parameters determine the choice of the adhesive kind. All the adhesive materials recommended by DUNE have been previously tested in our facilities, in controlled environmental conditions and on rigid brick and/or concrete walls. Under different conditions from the above mentioned, it is recommended to test firstly and if in doubt, please contact DUNE or the adhesive distributor. DUNE always recommends to test first the material with minimum two pieces before placing all the material.

It is recommended to use white-coloured concrete C2 glue or white Exoply adhesives to minimize the change of the glass tone, covering the whole surface of the piece. Consult adhesives table.

(SEE: [CERAMICA](#), [MATERIA](#), [STONE](#), [VITRA](#)).

3. INSTALLATION

We recommend starting the installation from the floor to the ceiling, continue in phase to allow the adhesive the necessary time to get dry. Extend a thin layer of adhesive on to the surface where the piece will be installed (3mm approx.) Then, use a notched trowel no. 3 to make incisions into the adhesive layer. Place the piece while the adhesive is still soft and before a dry layer of film forms on the adhesive surface.

To install 30x60 pieces or similar, extend a thin layer of adhesive on the surface where the piece will be installed (vertically) and another layer on the back of the piece itself, in the opposite sense (horizontally). Then, use also a notched trowel no. 3 and make the incisions into both the adhesive layer of the wall and in the opposite sense in the piece. Once the piece is placed, press carefully to obtain correct adhesion and cover possible areas without adhesive.

For a better fixing, it is recommended to set the pieces by using some tape or a wooden strip. To correct the position of the bases, it is recommended to take them off and correctly clean their back part before placing them again.

We recommend a minimum joint of 2mm and the use of crosspieces. For areas with severe thermal dilatation or non-stable surfaces (plasterboard), a minimum joint of 3 mm is strongly recommended.

(SEE: [MATERIA](#), [STONE](#), [VITRA](#)).

4. GROUTING

All joints must be perfectly clean and dry and having a minimum depth of 2mm. Use a flat rubber trowel to spread the paste, being sure that the joints are completely covered. Use a wet sponge or neutral PH products – never abrasive products – to wash off immediately the excess of grouting paste from the surface before it dries.

For better waterproofing, we recommend an epoxy grouting paste, especially in water areas (not apt for stone piedra). Consult the grouting materials table.

Important: The colour of the grouting paste might change the product's appearance. We recommend to test with some pieces before grouting the entire surface.

(SEE: [CERAMICA](#), [MATERIA](#), [STONE](#)).

5. CLEANING AND MAINTENANCE

Use a damp sponge and clean water to wash off the excess of grouting paste from the surface. It is very important to do this before the paste dries. If this happens, use a cement remover to clean the surface (not apt for stone).

For everyday cleaning, use regular cleaners con PH neutro. Do not use abrasive products.

(SEE: [CERAMICA](#), [MATERIA](#), [STONE](#)).

CERAMICA

INSTALLATION MATERIAL

White and Red body wall tile: C1 concrete glue. (Consult adhesives table).
Stoneware and porcelain tile: C2 concrete glue. (Consult adhesives table).

GROUTING

Items AL-ANDALUS, METROPOLITAN, MAYOLICA, COLLAGE SMOKE and COLLAGE MIST are decorated by pre-cuts, so that it is recommended to follow the lines of those pre-cuts in order to get a correct finish. Make sure that the distance between one sheet and another is the same as the one of pre-cuts, so that all the joints look alike. It is not necessary to use crosspieces as the pre-cuts can be used as joining references.

Items CARISMA, ESSENCE, VICTORIAN, SURF, LOUVRE, HIPSTER BRICK MIST and HIPSTER BRICK SMOKE can be placed randomly in order to avoid sequences repetitions on surface.

Moreover, we recommended tangled joints for CARISMA, COLLAGE SMOKE and COLLAGE MIST installation.

CLEANING AND MAINTENANCE

Avoid using abrasive and anti-lime cleaners or steel wool. Preferably use pH neutral cleaning products.

MATERIA

INSTALLATION MATERIAL

Use polyurethane adhesive with flexible properties. Do not apply too much of this material and always follow the adhesive manufacturer's instructions.

An epoxy adhesive suitable for wood can also be used.

ATALAYA NATURE and ALOA NATURE: Installation products needed for these references are two-faced tape and a multi propose quick-drying adhesive suitable for wood. The two-faced tape will keep the piece stucked on the wall while the adhesive gets dry. Consult adhesives table.

INSTALLATION

ATALAYA NATURE and ALOA NATURE: The pieces should remain at room temperature for at least 48 hours before installation. Place bits of two-faced tape around the perimeter of the piece and adhesive along it. Fix down the moorings between pieces with a rubber hammer. Models manufactured with LUX and GALENA resin components should not be installed in areas close to a heat source, such as behind radiators, in saunas, near burners, etc.

GROUTING

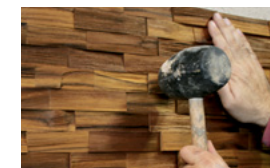
ATALAYA NATURE and ALOA NATURE: Do not grout.

CLEANING AND MAINTENANCE

ATALAYA NATURE and ALOA NATURE: The cleaning might be done with dry systems (vacuum, duster, etc.) or with a wet soft sponge or slightly damp cloths. DUNE supplies wood repairing liquid products in case any imperfection appears on the surface of the piece.

We recommend the sealer FILA PARQUET NATURE. The application must be repeated if, over time, it loses effectiveness. The frequency will also depend on the use. Before applying, make sure the surface is perfectly clean and dry.

Important: Test the treatment products on a piece to see the result.



STONE

INSTALLATION MATERIAL

It is recommended to use concrete C2 glue for natural stones.



INSTALLATION

Important! Check the stones before installation, mix the pieces from different boxes to obtain a more homogeneous tone variation.

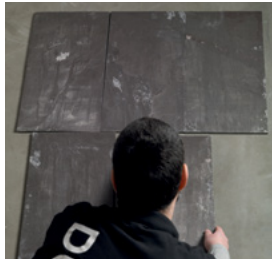
For a better choice, obtain 5% more than the quantity needed.

As we are dealing with natural materials, shade variation depends on the stone composition, which will be defined by the area of the quarry from which stone are extracted.

Before installation, we recommend always sealing the stones with our product SELLADOR ANTIMANCHAS.

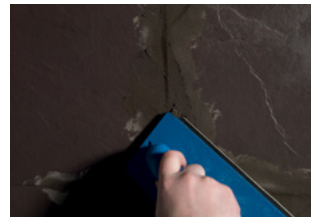
SHOWER and damp areas: we recommend the use of an insulating layer.

Important! Natural stone products are not suitable for covering swimming pools.



GROUTING

Epoxy grouting pastes can stain the edges of the tile – more visible on light pieces than in darker ones –, thus it is highly recommended to test before placing all the material.



CLEANING AND MAINTENANCE

For maintenance we recommend one of the following products: SELLADOR ANTIMANCHAS (Stain -Proof Sealer), which does not change the appearance of the stones, or CERA LIQUIDA (Liquid protective wax) this will enhance the colour of the stone. Before applying any of our stone products, make sure that the surface is perfectly clean and dry.

Both products may be used together: first the SELLADOR and, once dry, the wax CERA LIQUIDA

The application of these products must be repeated if, over time, they lose effectiveness. The frequency will depend on the use.

Important: Test the treatment products on a piece to see the result.



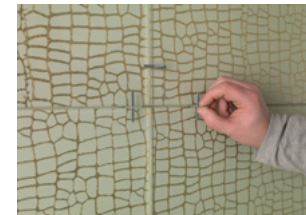
VITRA

INSTALLATION MATERIAL

It is recommended to use white-coloured concrete C2 glue or white Expsy adhesives to minimize the change of the glass tone, covering the whole surface of the piece. Consult adhesives table.

INSTALLATION

VITRA series' items can be combined with the rest of MEGALOS tiles (Ceramics and Stone), as long as tiles are installed with joints in order to minimize the small size dissimilarities between pieces made of different materials.



Installation of lightning systems at the back of pieces must be done with LED bulbs

References from the AURA series are sensitive to sun light. It is highly recommended to avoid direct sun exposure, even if they are installed on indoor walls (direct light through windows without curtains).

CUTTING AND DRILLING

STRIGHT CUTS: diamond blade wheel fitted with water-cooling systems. It should be cut on the back of the piece to avoid scratching.

PRISMA tiles (with fabrics inside) can be easily cut, as long as the cut is done slowly and the blade is cooled with water.



DRILLING:

Use a drill bit for perforating glass. We recommend using hollow drills with a diamond finish. The drill bit must be constantly cooled.

Use the drill at a low speed and without hammer action.

Do not apply excessive pressure on the piece while drilling; allow the drill bit to gradually perforate. Otherwise, the edges can break or cracks can appear later on. Be especially careful when the hole is about to be finished, this is the most delicate step.

Items with reliefs (VENEZIA, SINAI and FOREST) are difficult to bedrilled due to the glass internal forces. It is highly recommended not to do more than one hole and inferior than 8 mm in diameter.



FAQ'S

Which materials can and cannot be used for exteriors?

The use that you are going to put a base to depends on their porosity. As a general rule if the level of porosity is higher than 3% the tiles can only be used for interiors, while if it is above 6% then they can only be used for walls.

If the level of porosity is low (less than 3%) then the tiles can be used for both exteriors and interiors and on both floors and walls.

Although other criteria also exist to determine usage, absorption is the most widely employed.

in case of doubt, contact your commercial consultant.











What is PVD?










PVD is a decorative technique used to cover tiles with a metallic coating. This is a very fine film that highlights the features of the covered surface: shine, relief details... any irregularity or nuance will be stressed.

The PVD effect is particularly spectacular in the EXTRAVAGANZA Series, where the raised volume of the tiles is highlighted by the sheen provided by the PVD, which creates a fascinating play of light and shadow.

In technical terms PVD is an acronym for the process of "Physical Vapour Deposition", in which pieces are passed through a reactor, inside which a vacuum has been generated, and are bombarded by a kind of metallic vapour, using an electric arc.

As a result of this process the metallic particles become firmly adhered to the surface of the part. This finish neither increases nor decreases the resistance of the tile, and the PVD products included in our catalogue are not apt for exterior use, given that the process is applied to porous materials that do not have the required water absorption index for exterior use.

										
	Tolerancia Dimensional	Planitud de Superficie	Absorción agua	Dureza al rayado (Mohs)	Resistencia al cuarteo	Resistencia a las manchas	Resistencia prod. Piscina	Resistencia química	Resistencia al deslizamiento	Resistencia al impacto
	Length & Wide	Flatness	Water absorption	Scratch hardness (Mohs)	Crazing resistance	Stain resistance	Household detergents and additives for swimming-pools	Chemical resistance	Friction resistance	Impact resistance
REF.	UNE-EN ISO 10545-2:97	UNE-EN ISO 10545-2:97	UNE-EN ISO 10545-3:97	EN- 101:91	UNE-EN ISO 10545-11:97	UNE-EN ISO 10545-14:98	UNE-EN ISO 10545-13:98	UNE-EN ISO 10545-13:98	UNE-ENV 12633:2003	UNE-EN ISO 10545-5:98
VITRA	± 0,5 mm	± 0,3%	<0,5%	3	Sin cuarteo	5	GA	GLA	Clase 0	-

										
	Tolerancia Dimensional	Absorción agua	Dureza al rayado (Mohs)	Resistencia a las manchas	Resistencia prod. Piscina	Resistencia química	Resistencia al deslizamiento	Resistencia a la flexión	Resistencia a la abrasión	
	Length & Wide	Water absorption	Scratch hardness (Mohs)	Stain resistance	Household detergents and additives for swimming-pools	Chemical resistance	Friction resistance	Breaking strenght	Resistance to abrasion	
REF.	UNE-EN ISO 10545-2:97	UNE-EN ISO 10545-3:97	EN- 101:91	UNE-EN ISO 10545-14:98	UNE-EN ISO 10545-13:98	UNE-EN ISO 10545-13:98	UNE-ENV 12633:2003	UNE-EN 12372:1999	UNE-EN 12371:2002	UNE-EN 1341:2002
STONE	< 1 mm	<3%	> 3	5	UC	UC	En seco: 49 USRV (clase 3) / En Humedo: 10 USRV (clase 0)	Inicial: >15 Mpa	48 ciclos hielo-deshielo: 20,5 Mpa	< 20 mm

											
	Tolerancia Dimensional	Planitud de Superficie	Absorción agua	Dureza al rayado (Mohs)	Resistencia al cuarteo	Resistencia a las manchas	Resistencia prod. Piscina	Resistencia química	Resistencia al deslizamiento	Resistencia a la flexión	Resistencia a la abrasión
	Length & Wide	Flatness	Water absorption	Scratch hardness (Mohs)	Crazing resistance	Stain resistance	Household detergents and additives for swimming-pools	Chemical resistance	Friction resistance	Breaking strenght	Resistance to abrasion
CERAMICS	UNE-EN ISO 10545-2:97	UNE-EN ISO 10545-2:97	UNE-EN ISO 10545-3:97	EN- 101:91	UNE-EN ISO 10545-11:97	UNE-EN ISO 10545-14:98	UNE-EN ISO 10545-13:98	UNE-EN ISO 10545-13:98	UNE-ENV 12633:2003	UNE-EN ISO 10545-4:97	UNE-EN ISO 10545-7:96
REF.	UNE-EN ISO 10545-2:97	UNE-EN ISO 10545-2:97	UNE-EN ISO 10545-3:97	EN- 101:91	UNE-EN ISO 10545-11:97	UNE-EN ISO 10545-14:98	UNE-EN ISO 10545-13:98	UNE-EN ISO 10545-13:98	UNE-ENV 12633:2003	UNE-EN ISO 10545-4:97	UNE-EN ISO 10545-7:96
REVESTIMIENTO BRILLO 15x60 Y 30x60	± 0,4 mm	± 0,3%	PB: >10%	3	Sin cuarteo	5	-	GLA	-	> 15 N / mm ²	-
REVESTIMIENTO MATE 15X60	± 0,4 mm	± 0,3%	PB: >10%	4	Sin cuarteo	5	-	GLA	-	> 15 N / mm ²	-
FUSSION OXIDO 15X60	±1 mm	± 0,5 %	< 3%	4	Sin cuarteo	5	-	GLA	-	> 15 N / mm ²	2
SERIE COSMOPOLITAN 25x75	± 0,65 mm	± 0,3%	PB: >10%	3	Sin cuarteo	5	-	GLA	-	> 15 N / mm ²	-
SERIE NOVA 29.5x90	± 0,2 mm	± 0,3%	PB: >10%	4	Sin cuarteo	5	-	GLA	-	> 15 N / mm ²	-
GALENA	± 0,5 mm	± 0,3%	PB: >10%	1	-	5	-	GLA	-	> 15 N / mm ³	-
SERIE MILANO 60X60	± 0,2 mm	± 0,5 %	< 0,5%	4	Sin cuarteo	5	GA	GLA	Clase 1	> 40 N / mm ²	Antracite y Cement: 3 Beige: 4
FIRENZE MARFIL 60X60	±1 mm	± 0,5 %	< 0,5%	4	Sin cuarteo	5	GA	GLA	Clase 1	> 30 N / mm ²	4
SERIE MOMA 31.6X31.6	±0,5 mm	± 0,5 %	< 0,5%	5	Sin cuarteo	5	-	GLA	Clase 0	> 40 N / mm ²	2
SERIE 60X60 BRILLO	±0,2 mm	± 0,5 %	< 3%	3	Sin cuarteo	5	GA	GLA	Clase 0	> 30 N / mm ²	3
SERIE 60X60 MATE	± 0,2 mm	± 0,5 %	< 0,5%	4	Sin cuarteo	5	GA	GLA	Clase 1	> 30 N / mm ²	-

PRODUCTOS DE TRATAMIENTO / TREATMENT PRODUCTS

	Código Code	Descripción Description	Código PVP recomendado Recommended retail price
VITRA	185463	ANTI GLISS	D787
STONE	184507	CERA LIQUIDA PROTECTORA LIQUID PROTECTIVE WAX	D945
	184508	SELLADOR ANTIMANCHAS STAIN-PROOF SEALER	D969

TABLA DE ADHESIVOS / ADHESIVES TABLE ADHESIVES TABLE

	Cem-cola clase C1 <i>Cem-glue type C1</i>	Cem-cola clase C2 <i>Cem-glue type C2</i>	Adhesivo epoxidico <i>Epoxydic adhesive</i>
KERAKOLL	SPECIAL ECO	H 40 ECO FLEX	SUPERFLEX ECO
MAPEI	TIXOBOND	KERAFLEX MAXI S-1	KERALASTIC T

	Mortero adhesivo látex Latex adhesive mortar
LATICRETE	Mortar 211 + Laticrete 4237 (*)

VITRA	186167	TENAX KERAKOLL (Saco/Sack 25 Kg / Aprox. 4-5 m2)	D960
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TABLA DE PASTAS DE REJUNTAR / GROUTING PASTES TABLE

	Pasta de rejuntar cementosa <i>Cement grouting material</i>	Pasta de rejuntar epoxi <i>Epoxy grouting material</i>
KERAKOLL	FUGABELLA ECO PORCELANA	FUGALITE
MAPEI	KERACOLOR FF	KERAPOXY
LATICRETE	LATICRETE serie 1600	-

(*) Adhesivo cementoso con látex adecuado para piezas cerámicas, vidrio y piedra. Seguir las instrucciones de fabricante en cuanto a la preparación y aplicación. Se recomienda hacer una prueba antes de proceder a la colocación de todo el material.

(*) Cement adhesive containing latex suitable for ceramics, glass and stone pieces. Follow the adhesive manufacturer's instructions. We recommend a test in one piece BEFORE covering the whole surface.

My Print Glass 30x60 (grout 2mm.) 0,16 kg/m² aprox.
My Print Glass Mosaic 4mm. (grout 2mm.) 1,1 kg/m² aprox.



Technical Information

[emphasis]



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- Before installing ensure that the material is in perfect condition. Make sure you check the colours, finishes and thicknesses because **DUNE will not accept any claims or returns of material after it has been installed.**
- Before each stage, on one part test all of the materials and tools to be used and evaluate the final finish of the test. Should you fail to achieve the desired results do not continue with the installation, and consult our sales team.

1. PROPER PREPARATION OF SURFACE

The wall must be firm, levelled, dry and clean. Uneven surfaces greater than 2 mm must be levelled with specific products. All cracks and imperfections should be repaired, so that the wall is completely smooth. The moisture content of the surface must be under 2%.

2. INSTALLATION MATERIAL

For a correct installation, several factors must be taken into account:

Material kind of the wall to be tiled (synthetic pannels, plaster, wood, etc.), wall stability, environmental conditions, kind of surface to be covered, speed of carrying the work, etc.

All the above parameters determine the choice of the adhesive kind. All the adhesive materials recommended by DUNE have been previously tested in our facilities, in controlled environmental conditions and on rigid brick and/or concrete walls. Under different conditions from the above mentioned, it is recommended to test firstly and if in doubt, please contact DUNE or the adhesive distributor.

DUNE always recommends to test first the material with minimum two pieces before placing all the material.

Make sure that the chosen adhesive is apt for the material to be installed.

(SEE: [CERAMICA](#), [MATERIA](#), [VITRA](#)).

3. INSTALLATION

We recommend starting the installation from the floor to the ceiling, continue in phase to allow the adhesive the necessary time to get dry. This will avoid vertical displacements. Extend a thin layer of adhesive on to the surface where the piece will be installed (3mm approx.) Then, use a notched trowel no. 3 to make incisions into the adhesive layer. Place the piece while the adhesive is still soft and before a dry layer of film forms on the adhesive surface. Once the piece is placed, press carefully to obtain a correct adhesion and to cover possible areas without adhesive.

Important: make sure that the distance between one sheet and another is the same as the one among the components so that all the joints look alike.

For irregular mosaics, we recommend pulling out some components and relocating them in the joint between two sheets. This will improve the finish of the mosaic.

(SEE: [CERAMICA](#), [MATERIA](#), [STONE](#), [VITRA](#)).

4. GROUTING

All joints must be perfectly clean and dry and having a minimum depth of 2mm. Use a flat rubber trowel to spread the paste, being sure that the joints are completely covered. Use a wet sponge or neutral PH products – never abrasive products – to wash off immediately the excess of grouting paste from the surface before it dries.

For better waterproofing, we recommend an epoxy grouting paste, especially in water areas.

Do not use epoxy grouting paste with stone mosaics.

Consult the grouting materials table.

Important: The colour of the grouting paste might change the product's appearance. We recommend to test with some pieces before grouting the entire surface.

(SEE: [MATERIA](#), [STONE](#)).

5. CLEANING AND MAINTENANCE

Use a damp sponge and clean water to wash off the excess of grouting paste from the surface. It is very important to do this before the paste dries. If this happens, use a cement remover to clean the surface. (not apt for stone)

For everyday cleaning, use regular pH neutral cleaners. Do not use abrasive products.

(SEE: [CERAMICA](#), [MATERIA](#)).

CERAMICA

INSTALLATION MATERIAL

White and Red body wall tile: C1 concrete glue. (Consult adhesives table).

Stoneware and porcelain tile: C2 concrete glue. (Consult adhesives table).

INSTALLATION

FROZEN, ARTISAN, MANDALA, TIFFANY, BRUSSELS and ANDY: Lay the pieces in a random way in order to avoid the continuity of the design.

PITIUSA, ZIG-ZAG, ARTISAN, ABSOLUT, ANDY, BRUSSELS y TIFFANY: We recommend a minimum joint of 2 mm and the use of crosspieces to keep the linearity of the pre-cuts.

CLEANING AND MAINTENANCE

Use regular cleaners. Additional maintenance is not required.

CHARM and GRACE: Avoid using abrasive and anti-lime cleaners or steel wool.

MATERIA

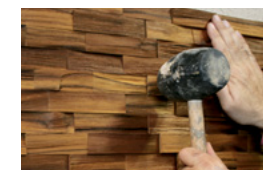
INSTALLATION MATERIAL

For AMAZONIA NATURA and TROPICANA NATURA use Epoxy adhesives with flexible properties apt for wood. Do not use too much product and always follow the adhesive manufacturer's instructions.

INSTALLATION

Important: For mosaics with natural stone pieces we recommend always sealing them before installation. You can use our product SELLA-DOR ANTIMANCHAS and/or CERA LIQUIDA.

AMAZONIA Y TROPICANA NATURA, should remain at room temperature for at least 48 hours before installation. Spread the adhesive as mentioned above and use a rubber hammer to ease the process.



Models manufactured with resin components, DUENDE PLATINUM and DUENDE COPPER, should not be installed in areas close to heat sources, such as behind radiators, in saunas, near burners, etc.

GROUTING

METALIC GOLD and SILVER, PURE BRONZE, BRONZO, ETERNAL, NEREIDA, ATENEA, NAYADE, HERMES, POSEIDON and, in particular, MATRIX, are completely covered with a metallic coat and have a low resistance to scratching. For a proper finish, use a fine grouting material. Excess of grout must be immediately cleaned with a sponge and water, avoiding excessive pressure. Be especially careful as it is at this stage of the installation when scratching is more frequent.

Important: we recommend a test of grouting in one piece BEFORE grouting the whole surface.

AMAZONIA NATURA and TROPICANA NATURA: do not grout.

When dealing with pieces with stone components, do not use epoxy grouting pastes without testing before on the piece, as not all stones are suitable for this kind of grouting pastes.

CLEANING AND MAINTENANCE

Wood products: We recommend the sealer FILA PARQUET NATURE or TEAK OIL. The frequency will also depend on the use. Test the product on a piece to see the result.

Metallic mosaics can also be cleaned with specific cleaners for metal.



Those references with resin protection (NEREIDA, ATENEA, NAYADE, HERMES and POSEIDON), must not be cleaned using specific epoxy resin cleaners.



CUTTING

MATRIX, METALIC GOLD and SILVER, BRONZO, PURE BRONZE and ETERNAL, can be cut using a metal radial disk. We recommend continuous rim disks.

STONE

INSTALLATION

Before installation, we recommend always sealing the stones with our product SELLADOR ANTIMANCHAS. Wax is not suitable for this product, therefore our CERA LIQUIDA cannot be applied on it.

Important: Check the stones before installation, mix the sheets from different boxes to obtain a more homogeneous tone variation. For a better choice, get 5% additional quantity to the one needed.

As we are dealing with natural materials, shade variation depends on the stone composition, which will be defined by the area of the quarry from which stone are extracted.

SHOWER and damp areas: we recommend the use of an insulating layer.

Important: Natural stone products are not suitable for covering swimming pools.



GROUTING

We recommend light grouting tones for walls and dark tones for floors.

HORUS, LUNE, SOLEIL: have a decorative application on its surface, thus we recommend applying the grout with the aid of a flat rubber trowel to avoid scratching. For these pieces it is especially recommended to remove the paste before it dries on the surface of the piece.

CALMA: Do not grout. Use a rubber mallet to fit the pieces together. Once dry, the only option to eliminate the excess of grouting paste is using abrasive products that will damage the surface.

Do not use epoxy grouting pastes without testing before on the piece, as not all stones are suitable for this kind of grouting pastes.

VITRA

INSTALLATION MATERIAL

It is recommended to use white-coloured concrete C2 glue or white Epoxy adhesives to minimize the change of the glass tone.

For swimming pool walls, use a white-coloured concrete C2 glue or Epoxy adhesives and waterproof grouting materials. We also recommend an epoxy grouting paste. It is essential that the pool is completely waterproof. We recommend using specific sealing materials. Make as many tests as necessary to ensure the swimming pool walls are completely waterproof. Please, note levelling materials are not waterproof.

MY PRINT mosaics must be installed using epoxy adhesives. Run a test prior to going ahead with the installation.

INSTALLATION

Handcrafted molten glass mosaics present variations of both colour and shape between the different tesserae that make up the mosaic. Small imperfections and/or irregularities are considered to be a part of this process and, as a result, will not be grounds for complaint (TINSEL, CINEMA, GILDED, REGGAE, SALSA and BLUES).

NICE, ALEGRIA, KANNA and ARGUS references, must not be exposed to natural light because the organic inks lose their colour.

SHOWER FLOOR: Where mosaics are installed on shower floors, it is highly recommended to apply an anti-skid product. DUNE recommends and sells ANTIGLISS.



CUTTING

Use special pliers for glass mosaics or radial disc for glass or porcelain water cooled.

FAQ'S

Which materials can and cannot be used for exteriors?

The use that you are going to put a base to depends on their porosity. As a general rule if the level of porosity is higher than 3% the tiles can only be used for interiors, while if it is above 6% then they can only be used for walls.







If the level of porosity is low (less than 3%) then the tiles can be used for both exteriors and interiors and on both floors and walls.




Although other criteria also exist to determine usage, absorption is the most widely employed.

Consult the usage table on page 318 and, in case of doubt, contact your commercial consultant.

How can I protect MATRIX and DISCOVERY tiles during laying/installation?

Both of these tiles are made up of large metallic tesserae. Metallic surfaces are very easily scratched (1 on the Mohs Scale), in order to minimise this effect it is very important to take as much care as possible when laying/installing and cleaning these tiles. DUNE recommends the use of fine-grain grout and using a sponge with a pH neutral product for cleaning. Avoid the use of scourers or lime-scale removing products. You can also use specific metal cleaners.

	Tolerancia Dimensional <i>Length & Wide</i>	Absorción Agua <i>Water Absortion</i>	Dureza al rayado <i>Scratch Hardness</i> (Mohs)	Resistencia al cuarteo <i>Crazing Resistance</i>	Resistencia a las manchas <i>Stain Resistance</i>	Resistencia Química <i>Chemical Resistance</i>
						
REFERENCIA	UNE-EN ISO 10545-2:97	UNE-EN ISO 10545-3:97	EN- 101:91	UNE-EN ISO 10545-11:97	UNE-EN ISO 10545-14:98	UNE-EN ISO 10545-13:98
VITRA MOSAICO	-	<0,5%	3	sin cuarteo <i>no crazing</i>	5	GA
CERAMICS MOSAICO	-	PB: >10% Porcelánico <1%	4	sin cuarteo <i>no crazing</i>	5	GLA

	Resistencia al deslizamiento <i>Friction Resistance</i>	Resistencia a la flexión <i>Breaking Strenght</i>		Resistencia a la abrasión <i>Resistance to abrasion</i>
				
REFERENCIA	UNE-ENV 12633:2003	UNE-EN 12372:1999	UNE-EN 12371:2002	UNE-EN 1341:2002
STONE MOSAICO	En seco:70 USRV(clase3) En húmedo:58 USRV(clase2)	-	-	-

PRODUCTOS DE TRATAMIENTO / TREATMENT PRODUCTS

	Código Code	Descripción Description	Código PVP recomendado Recommended retail price
VITRA	185463	ANTI GLISS	D787
STONE	184507	CERA LIQUIDA PROTECTORA LIQUID PROTECTIVE WAX	D945
	184508	SELLADOR ANTIMANCHAS STAIN-PROOF SEALER	D969

TABLA DE ADHESIVOS / ADHESIVES TABLE ADHESIVES TABLE

	Cem-cola clase C1 <i>Cem-glue type C1</i>	Cem-cola clase C2 <i>Cem-glue type C2</i>	Adhesivo epoxidico <i>Epoxydic adhesive</i>
KERAKOLL	SPECIAL ECO	H 40 ECO FLEX	SUPERFLEX ECO
MAPEI	TIXOBOND	KERAFLEX MAXI S-1	KERALASTIC T

	Mortero adhesivo látex <i>Latex adhesive mortar</i>
LATICRETE	Mortar 211 + Laticrete 4237 (*)

VITRA	186167	TENAX KERAKOLL (Saco/Sack 25 Kg / Aprox. 4-5 m2)	D960
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TABLA DE PASTAS DE REJUNTAR / GROUTING PASTES TABLE

	Pasta de rejuntar cementosa <i>Cement grouting material</i>	Pasta de rejuntar epoxi <i>Epoxy grouting material</i>
KERAKOLL	FUGABELLA ECO PORCELANA	FUGALITE
MAPEI	KERACOLOR FF	KERAPOXY
LATICRETE	LATICRETE serie 1600	-

(*) Adhesivo cementoso con látex adecuado para piezas cerámicas, vidrio y piedra. Seguir las instrucciones de fabricante en cuanto a la preparación y aplicación. Se recomienda hacer una prueba antes de proceder a la colocación de todo el material.

(*) Cement adhesive containing latex suitable for ceramics, glass and stone pieces. Follow the adhesive manufacturer's instructions. We recommend a test in one piece BEFORE covering the whole surface.

My Print Glass 30x60 (grout 2mm.) 0,16 kg/m² aprox.
My Print Glass Mosaic 4mm. (grout 2mm.) 1,1 kg/m² aprox.