DIATHONITE SCREED

Thermal, breathable and light weight screed.

Formulated with cork (grain size 0-3 mm), clay, diatomaceous earths and hydraulic binder, *Diathonite Screed*is the ready-to-use natural solution for the insulation of slabs, floors, roofs and ventilated roofs. Its ultra-lightweight nature allows to achieve high thermal performance without overloading existing structures. Versatile and resistant, as it is fibre-reinforced, it is perfect for indoor and outdoor applications, both in new construction and architectural restoration.

YIELD

6.00 kg/m^2 (± 10%) per cm of thickness.
3.12 lb/ft^2 (± 10%) per inch of thickness.

PACKAGING

25 kg paper bags.
Pallet: n° 50 paper bags (1250 kg)

APPEARANCE AND COLOR

Powder	Light Grey

STORAGE

Store the product in its original, perfectly closed packaging, in well-ventilated areas, adequately protected from sun, water, frost, and kept at temperatures above +5°C (+41°F).
Shelf time: 12 months.

FIELDS OF APPLICATION

From new construction to restoration, *Diathonite Screed*is the versatile screed designed for thermal and acoustic insulation of any environment, both indoor and outdoor. Its formulation makes it particularly effective in correcting thermal bridges on balconies and in the insulation of slabs towards the rooms below.

Integration with the *Diafon* system further enhances performance, neutralizing vibrations and footfall noise, while its excellent mechanical resistance ensures stability and durability over time.

BENEFITS

- Highly breathable.
- Insulates against cold and heat.
- Reaction to fire: Euroclass A1.
- Resolves thermal bridges.
- Fibre-reinforced.
- Applicable even at low thicknesses.
- Suitable for embedding systems/utilities.
- *Diathonite Screed* can be directly tiled, after waterproofing with a suitable product marked EN-14891.
- Improves the efficiency of underfloor heating.
- It does not weigh down the existing structure.

PREPARATION OF THE SUPPORT

The substrate must be completely hardened, properly cured, and possess adequate mechanical resistance. The surface must be thoroughly cleaned, well-consolidated, and free of crumbly or inconsistent parts. In the presence of systems/utilities, provide for the construction of a concrete capping to protect them.

CONTRIBUTES TO BREEAM® CONTRIBUTES TO WELL® CONTRIBUTES TO LEED® CONTRIBUISCE AI CAM IMPROVES INDOOR AIR QUALITY EPD Verified UK CA BS EN 13813 CE EN 13813

DIASEN

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Bricks/Blocks

No primer is required; the application can be carried out directly onto the brick substrate. In the presence of depressions or holes, provide for restoration with a suitable mortar.

Concrete

In the presence of damaged and friable concrete, proceed with the restoration using a suitable cement-based repair mortar. Any exposed reinforcing bars must be previously treated with specific passivating and/or anti-corrosive products suitable for structural repair.

- **Smooth Concrete**: provide for the application of *Aquabond* primer (refer to the product's technical data sheet).
- **Rough Concrete**: no primer is required; the application can be carried out directly onto the substrate.

Provide for the use of *Watstop* (refer to the product's technical data sheet) on substrates against the ground.

Wood and Steel

These types of substrates are subject to significant expansion and movement. Therefore, the use of a reinforcing mesh will be necessary.

- For thicknesses up to 50 mm: it is possible to use *Polites 140* (refer to the product's technical data sheet) glass fibre mesh or, alternatively, an electro-welded galvanized metal mesh, along with *Aquabond* primer.
- For higher thicknesses: the use of an electro-welded galvanized metal mesh in combination with *Aquabond* primer is always recommended.

Panels

For a workmanlike application, ensure that the panels are tightly joined together and that the mechanical fixing is able to support the weight of the plaster. Then, proceed directly with the casting of *Diathonite Screed*. In any case, provide a reinforcement with fiberglass mesh, such as *Polites 140*, for thicknesses up to 50 mm or, alternatively, a galvanized welded mesh at mid-thickness for thicknesses exceeding 50 mm.
For substrates not included in the technical data sheet, please contact the *Diasen* technical office.

APPLICATION BY PLASTERING MACHINE

Suggested plastering machines

The indicated plastering machines represent only some of the models available on the market. Other models with equivalent characteristics and performances can be used. All recommended models use screw or rotary systems, but the speed, mixer size, and screw geometry differ. Therefore, the consistency and flow of the plaster may require minor adjustments to the water/material ratio to achieve optimal results.

- *PFT G4*
- *PFT Ritmo XL*
- *Imer Koine 4*
- *Turbosol Giotto 4*
- *Putzmeister MP 25*

In the case of application with the aforementioned three-phase plastering machines, the ideal equipment includes the installation of a new **D8-1.5 stator/rotor (screw pump)** and a **closed shafts mixer**. The setup must be completed with a tapered hose (**Ø 35 mm**) and a **14 or 16 mm** nozzle to ensure the correct projection of the product.

- *PFT G5*

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In the case of application with the aforementioned **plastering machine**, the ideal equipment includes the installation of a **D6 – 2L stator/rotor (screw pump)** and a **closed shafts mixer**. The setup must be completed with a **tapered hose** (length 150 mm, Ø 35 mm) and a **16 mm nozzle** to ensure the correct **projection** of the product.

- *Putzmeister SP 11 LMR*

For the *Putzmeister SP 11 LMR* diesel plastering machine, the setup must include a **2L6 screw pump (stator/rotor)**, a **250 mm** long hose with a **35 mm diameter**, and a **spray gun** with a **16 mm** nozzle.

Mixing

Load the content of the bags into the hopper. Adjust the machine's flow meter first to **400-600 L/h** to wet the hose, then to **250-400 L/h** for regular application. The mixture must appear as a **lightweight**, **frothy mass**, characterized by diffuse and homogeneous micro-cavities, and **free of gloss**. To avoid altering the chemical-physical balance of the compound, it is strictly forbidden to add any foreign products. Depending on the water absorption rate of the substrate and the environmental conditions, it is recommended to dose the correct amount of water necessary to achieve proper adhesion. The specified water quantity is indicative.

Application

1. It is essential to moisten the substrate, especially during the summer and on masonry exposed to the sun. If the surface has already been primed, proceed directly.
2. Create reference points or screed strips to achieve the required thicknesses. Points or strips can be made with *Diathonite Screed*or with aluminium or wooden profiles. In the latter two cases, the strips must be removed immediately after the application of the last layer of plaster, and the gaps must be filled with *Diathonite Screed*.
3. It is recommended to position the strips at a maximum centre-to-centre distance of 250 mm and to check the levelling of the slats with a spirit level.
4. Moisten the previous layer before applying the product.
5. Cast *Diathonite Screed* by filling the area between the strips. The minimum achievable and usable thickness of the screed is 30 mm.
6. When the screed embeds the systems/utilities, it must be reinforced with *Polites 140* glass fibre mesh for thicknesses up to 50 mm; for higher thicknesses, the use of an electro-welded galvanized mesh is always recommended.
   a. The minimum thickness of the screed above the systems must be at least 30 mm.
   b. The mesh must be positioned immediately above the systems.
   c. Provide for adequate capping of the system piping/conduits.
7. The thickness and reinforcement of *Diathonite Screed*must be determined in advance based on the expected loads.
8. The maximum thickness achievable with a single cast is 50 mm.
9. If the design thickness is not reached with the first layer, apply further coats of *Diathonite Screed*only when the underlying layer is firm to the touch and visually lighter (approx. 12–24 hours), maintaining a thickness ≤ 50 mm per coat.
10. Level the screed with an H-straightedge resting on the strips, using a regular and continuous movement.
11. During the levelling phase, do not compress the plaster to preserve the porosity of the product. As you proceed, it is advisable to use a

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plastic float or other material to smooth and compact the surface.

APPLICATIONS BY HAND

Mixing

If mixed in a mixer or with a mixing drill, add **11.5 – 12.5 L** of clean water for each bag of *Diathonite Screed*(25 kg). The specified amount of water is indicative and may vary depending on the weather conditions. Do not mix the compound in the mixer for more than **3-4 minutes**. Depending on the water absorption rate of the substrate and the environmental conditions, it is recommended to *dose* the right amount of water necessary to achieve *correct adhesion*.

Application

1. It is *essential* to moisten the substrate, especially during the summer and on masonry exposed to the sun. If the surface has already been primed, proceed directly.
2. Create reference points or screed strips to achieve the required thicknesses. Points or strips can be made with *Diathonite Screed*or with aluminium or wooden profiles. In the latter two cases, the strips must be removed immediately after the application of the last layer of plaster, and the gaps must be filled with *Diathonite Screed*.
3. It is recommended to position the strips at a maximum centre-to-centre distance of 250 mm and to check the levelling of the slats with a level.
4. Moisten the previous layer before applying the product.
5. Cast *Diathonite Screed*by filling the area between the strips. The minimum achievable and usable thickness of the screed is 30 mm.
6. When the screed embeds the systems/utilities it must be reinforced with *Polites 140* glass fibre mesh, up to a maximum thickness of 50 mm; for higher thicknesses, the use of an electro-welded galvanized mesh is always recommended.
   a. The minimum thickness of the screed above the systems must be at least 30 mm.
   b. The mesh must be positioned immediately above the systems.
   c. Provide for adequate capping of the system piping.
7. The thickness and reinforcement of *Diathonite Screed*must be determined in advance based on the expected loads.
8. The maximum thickness achievable with a single cast is 50 mm.
9. If the design thickness is not reached with the first layer, apply further coats of *Diathonite Screed*only when the underlying layer is firm to the touch and visually lighter (approx. 12–24 hours), maintaining a thickness ≤ 50 mm per coat.
10. Level the screed with an H-straightedge resting on the strips, using a regular and continuous movement.
11. During the levelling phase do not compress the plaster to preserve the porosity of the product. As you proceed it is advisable to use a plastic float or other material to smooth and compact the surface.

Application in combination with the insulating mat DIAFON

1. Place *Diafon* mats (refer to the product's technical data sheet) on the surface, taking care to orient the synthetic film upwards.
2. Overlap the mats by at least 100 mm, proceeding with the welding of the edges to ensure the continuity of the soundproofing layer.
   2.1. If hot welding is not possible, sealing can be carried out with aluminized adhesive tape or a specific sealant; this prevents

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screed grout from penetrating under the mat, creating a rigid acoustic bridge that would nullify the insulation.

3. The overlap must follow the direction of the screed application to avoid opening during the casting phase. The surface must be totally covered, without interruptions.
4. *Diafon* can be laid directly on the extrados of the structural slab or on the service cover screed, previously levelled, before the application of *Diathonite Screed*.
5. Fold the mat up along the walls to prevent the formation of acoustic bridges between the floor and vertical structures. The height of the upstand must exceed the level of the finished floor.
   5.1. Ensure that the upstand angle is strictly 90°, avoiding rounding or *hollows* that would create technical voids between the mat and the slab.
   5.2. To press the material well into the corner, the use of a preformed perimeter strip or a roller is recommended.
6. Once the perfect sealing of the mats and perimeter upstands has been verified, proceed with *Diathonite Screed*.
7. Unlike the masonry, the *Diafon* mat must not be moistened.
8. To guarantee impact sound reduction, the minimum thickness of the screed must be 50 mm.
   8.1. In case of thicknesses greater than 50 mm or in the presence of embedded systems, provide for the use of a galvanized welded mesh positioned at half the thickness of the casting.
9. Draw the screed with an H-straightedge resting it on the strips, performing a regular and continuous movement.
10. During the straightedge levelling phase, do not compress the plaster to preserve the porosity of the product. As you proceed, it is advisable to use a plastic float or other material to smooth and compact the surface.
11. Wait for the complete drying and curing of *Diathonite Screed*, which under standard temperature and relative humidity conditions (23°C, 50%) is approximately 28 days if applied with a thickness of 50 mm, before proceeding with the installation of the final coating (ceramics, marble, or parquet).
12. Once the installation of the chosen coating is completed, cut the excess of the *Diafon* mat, operating flush with the finished surface.
13. Install the baseboard keeping it raised about 2 mm from the floor.
    13.1. It is fundamental that the baseboard rests on the edge of the folded mat (not yet trimmed) to ensure total disconnection.
14. If required, fill the joint between the baseboard and the floor with elastic polyurethane sealant or silicone, maintaining the function of an acoustic joint.

FINISHING LAYERS

*Diathonite Screed*is suitable for the installation of coatings such as tiles, stone, porcelain stoneware, and similar materials, following the same application methods described in the previous paragraphs. It can also be coated with *Diasen* decorative finishes, such as the cork-based paint, *Decork Mediterraneo Fine* or the *Decorkrete* micro-cement.

DRYING TIME

At a temperature of 23°C and relative humidity of 50%, the product dries completely in approximately 28 days if applied with a thickness of 50 mm.

- Drying times are influenced by environmental temperature and

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relative humidity conditions and can vary significantly.
    - For higher thicknesses, consider approximately 7 - 10 extra days for each centimetre of thickness depending on the environmental conditions.
- During the curing phase, protect the screed from frost, direct sunlight and strong ventilation to prevent the formation of cracking. In the presence of high temperatures, direct sun or intense wind, it is advisable to wet the surface 2–3 times a day for the first 2–3 days following the application.
- Before the installation of the final flooring, the screed must have completed its hygrometric shrinkage and be adequately protected from loads and pedestrian traffic, in order to avoid damage and possible cracking phenomena.
- *Diathonite Screed*can be directly paved with ceramic, *terracotta*, and stoneware coatings. It can also be coated with glue-down parquet after no less than 28 days of curing. If the screed is too rough for the installation of the parquet, it is recommended to sand the surface with an abrasive disc machine and subsequently apply the product *Watstop*.
- The use of *Watstop* is recommended in all cases where it is necessary to consolidate the surface of the screed before the installation of the flooring.
- *Diathonite Screed*is not suitable for housing radiant floor heating systems. However, the product can be laid below the system to avoid possible thermal dispersions.
- *Diathonite Screed*can be coated with liquid waterproofing or with *Diasen* coatings.

SUGGESTIONS

- Do not apply with environmental and support temperatures lower than +5°C and higher than +35°C.
- During the summer season, apply the product during the coolest hours of the day, away from direct sun.
- Do not apply with imminent danger of rain or frost, in conditions of heavy fog or with relative humidity higher than 70%.
- When applied outdoors, it is fundamental to provide adequate expansion joints, professionally installed and positioned at suitable intervals, in order to prevent the formation of cracking or fissures in the coating. The type, number, and positioning of the joints must be defined and coordinated by the Site Supervision, according to the specific project and execution conditions.
- Always maintain any pre-existing structural joints and/or expansion joints and/or insulation joints on the surface.
- Provide specific joints when a change of material occurs in the support, at fixed elements such as pillars, partition walls, doors or thresholds, and at changes in the laying direction.
- For the waterproofing of joints, use the specific sealant *Diaseal Strong* (refer to the product's technical data sheet).
- In special cases of high loads, provide for the use of a galvanized welded wire mesh, regardless of the applied thickness.

CLEANING

The equipment used can be washed with water before the hardening of the product.

SAFETY

During handling, comply with the information reported on the product safety data sheet.

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ISO 9001® QUALITY | ISO 14001® ENVIRONMENT | ISO 45001® SAFETY

TECHNICAL SPECIFICATION

* The reported data, although obtained by carrying out standardized test methodologies, are indicative and may undergo changes as the specific construction site conditions vary.

PHYSICAL / TECHNICAL DATA*		
CHARACTERISTIC DATA	**VALUE**	**UNIT OF MEASUREMENT**
Yield	6.00 ± 10% *per cm of thickness*	kg/m^2
	3.12 ± 10% *per inch of thickness*	lb/ft^3
Aspect	powder	-
Color	Light grey	-
Grain size	0 - 3	mm
	0 – 0.12	in
Density	600 (±10%)	kg/m^3
	37.46 (±10%)	lb/ft^3
Water to add to the mixture	0,45 - 0,50 *11.5 – 12.5 L for each 25 kg bag*	L/kg
Minimum thickness per coat	30 / 1.18	mm/in
Maximum thickness per coat	50 / 1.97	mm/in
Maximum thickness per coat *embedding of systems*	30 / 1.18	mm/in
Minimum thickness per coat *in combination with Diafon sound-insulating mat*	50 / 1.97	mm/in
Application temperature	+5 / +30	°C
Drying time *(T=23°C - 73.4°F; R.H. 50%)* *Thickness 5 cm – 1.97 in*	28	days
Storage	12	months
Packaging	25 kg paper bag	kg

PERFORMANCES*				
FINAL PERFORMANCES	**VALUE**	**UNIT**	**STANDARDS**	**RESULTS**
Thermal conductivity ($\lambda_{10,\ dry}$)	0,060	W/mK	UNI EN 1745	category T1
Thermal resistance *(R)* *per 1 cm of thickness*	0,167	m^{2}K/W	UNI EN 12667	-
Specific heat capacity *(c)*	1000	J/kgK	UNI EN 1745 UNI EN 10456	- -
	0,239	kcal/kg °C		
Impact sound pressure level attenuation rating index ΔLw Diafon + Diathonite Screedsystem at 50 mm (1.97 in)	ΔL_w = 22	dB	UNI EN ISO 717-2	-

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Impact sound insulation index of *Diathonite Screed* at 50 mm (1.97 in) + *Diafon* mat on hollow core concrete and brick slab	L'_{nw} = 58	dB	UNI EN ISO 140-7 DPCM 05.12.1997	-
Compressive strength	>10	N/mm²	UNI EN 13813	C7
Flexural strength	> 2	N/mm²	UNI EN 13813	F2
Vapour permeability coefficient (μ)	4	-	UNI EN ISO 12572	Highly breathable
Reaction to fire	class A1	-	UNI EN 13501-1	-
Hardened material weight	800 (±10%)	kg/m³	-	-

INDOOR AIR QUALITY (IAQ) CERTIFICATION		
Evaluation of the results		
Regulation or protocol	Version of regulation or protocol	Conclusion
French VOC Regulation	Decree of March 2011 (DEVL1101903D) and Arrêté of April 2011 (DEVL1104875A) modified in February 2012 DEVL1133129A)	ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C
French CMR components	Regulation of April and May 2009 (DEVP0908633A and DEVP0910046A)	Pass
Italian CAM Edilizia	Decree 11 October 2017 (GU n.259 del 6-11-2017)	Pass
AgBB/ABG	Anforderungen an bauliche Anlagen bezüglich des Gesundheitsschutzes, ABG May 2019, AgBB August 2018	Pass
Belgian Regulation	Royal decree of May 2014 (C-2014/24239)	Pass
Indoor Air Comfort®	Indoor Air Comfort 7.0 of May 2020	Pass
Blue Angel (DE-UZ 113)	DE-UZ 113 for "Low-Emission Floor Covering Adhesives and other Installation Materials" (Version January 2019)	Pass
BREEAM International	BREEAM International New Construction v2.0 (2016)	Exemplary Level
BREEAM® NOR	BREEAM-NOR New Construction v1.2 (2019)	Pass
LEED®	"Low-Emitting Material" according to the requirements of LEED v4.1	Pass
CDPH: Classroom scenario	CDPH/EHLB/Standard Method V1.2. (January 2017)	Pass

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