IPMGeoDrena®

Eco-friendly system for continuous draining floors

contributes to
MRC3,MRC5,EQC2
credits (v4.1 NC)
IT04-22021102

IPM Italia
SOLUTIONS THAT LAST

IPM GeoDrena® is a system with very high draining capacity, with visible high-quality natural aggregate (marble, granite, porphyry) for outdoor continuous floorings.
The system obtained the approval of the Superintendence of Environmental, Architectural and Archaeological Heritage and of numerous bodies. The system is certified for loads. Thanks to the porous structure, water is drained so that runoff and stagnation are avoided.

LUMI VERSION

In the IPM GeoDrena® Lumi version, the luminescent effect is also useful and pleasant, obtained with an additional treatment for aggregates. It is a creative and functional solution ideal, for example, to illuminate a cycle lane with a blue or green light that makes it not only safe, but also suggestive at sunset. Or, to compose the brand at the entrance of a company or a coat of arms at the entrance of a villa.

IMMEDIATE DRAINAGE Thanks to the permeability Equal to about 2.700 l/m2/min and porosity of the internal structure, rainwater is immediately drained when it comes into contact with the surface. Drainage capacity of 2.700 litres/sqm/minute.

ANTI-YELLOWING PROPERTIES Thanks to the special formula, the original aesthetic characteristics last for a long time without yellowing.

LOAD RESISTANCE It offers high mechanical resistance, being able to withstand both vehicle and pedestrian traffic.

QUICK INSTALLATION Up to 1/3 less than the time taken to install similar materials such as asphalt or limited-slip materials.

CUSTOMIZATION The possibility to vary natural materials, geometric shapes and colours, ensures versatility and adaptability to any project.

CLIMATE AND CHEMICAL RESISTANCE
It offers high resistance to freeze/thaw cycles. It is resistant to fire and to the aggression of hydrocarbons, fats, organic debris and waste.

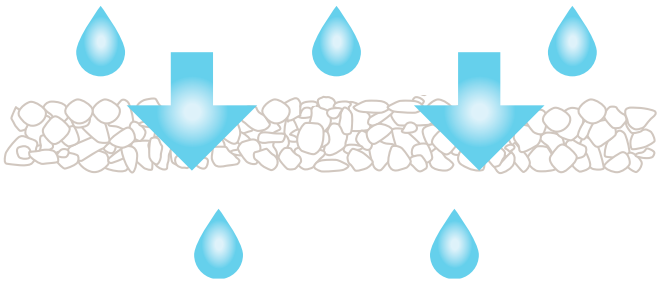
RAINWATER FILTERING Rainwater filters through non-toxic natural materials and therefore does not require further recovery treatments.

CONTRAST OF THE HEAT ISLAND PHENOMENON It has a high capacity to reflect sun rays, does not overheat thus mitigating the formation of the warmest micro-climate typical of urbanized areas.

TECHNICAL CHARACTERISTICS

Product hardening at 23°C - 7 days

Medium thickness	12 mm pedestrian-cycle 18 mm driveway
Colour	as per sample
Slipping resistance UNI EN 13036-4	> 45 dry or wet flooring
Aspect	natural
Coefficient of elasticity	> 25 %
Traffic resistance	variable depending on the ground load and the expected traffic class
Compressive strength (DIN EN 196)	18 ± 3 N/mm^2
Drainage capacity Geo 08/1996	45 dm^3/min Equal to about 2.700 l/m^2/min
Resistance to temperature (AIR)	-20 ± 60 °C
Sun reflection index (SRI) (botticino) ASTM E 1986	47,1



USE

- Squares, shopping centres, residential areas
- Waterfront boulevards, driveways, golf courses
- Cycle lanes, parking lots
- Outdoor areas of villas, terraces and pool edges

All the regulations concerning safety and manipulation of products are reported on safety technical sheets of each single product included in the Coating System. Figures reported above are based on our best laboratory experience. They do not bound the producer to any obligation. Figures can be changed at any time without need of advice. Any responsibility must be referred to whom is in charge of the application or use of the present Coating System.

Rev. 2022 - IPM GeoDrena® is a registered trademark of IPM Italia S.r.l.

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Installation and substrates

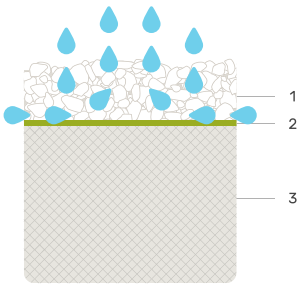
IPM GeoDrena® can be installed on existing substrates even if they are worn; on new substrates such as concrete, draining concrete, natural stone and soil.

IPM GeoDrena® on old floorings

IPM GeoDrena® is ideal for renovating old floorings made of tiles, stone, klinker, marble and so on without demolishing them, provided that they are stable. The old support is mechanically prepared in order to obtain the proper cohesion and being ready for IPM GeoDrena® installation.

PEDESTRIAN-CYCLE
1. IPM GeoDrena® 12 mm
2. Adhesion promoter
3. Old flooring

DRIVEWAY
1. IPM GeoDrena® 18 mm
2. Adhesion promoter
3. Old driveway flooring

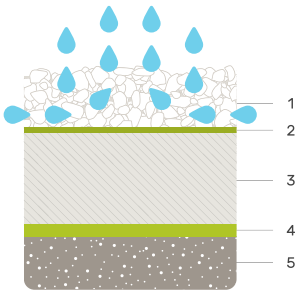


IPM GeoDrena® on concrete supports

IPM GeoDrena® is ideal for developing both driveway and pedestrian-cycle external areas all over again. IPM GeoDrena® system is installed on concrete slab carried put with the proper slopes, in order to convey water to the green or to nearby drainage systems.

PEDESTRIAN-CYCLE
1. IPM GeoDrena® 12 mm
2. Adhesion promoter
3. Additivated sand cement screed 50/60 mm
4. Geo Fabric
5. Quarry mix / bottom layer

DRIVEWAY
1. IPM GeoDrena® 18 mm
2. Adhesion promoter
3. Reinforced concrete 150-180 mm
4. Geo Fabric
5. Quarry mix / bottom layer

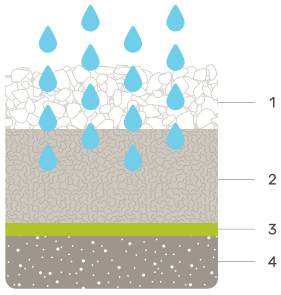


IPM GeoDrena® on IPM GeoCem support

IPM GeoDrena® can also be installed on suitably compacted and rolled soil. In this case, it is used as support for IPM GeoCem, a draining screed based on pozzolanic cement with controlled granulometry and variable height depending on the load.

PEDESTRIAN-CYCLE
1. IPM GeoDrena® 12 mm
2. IPM GeoCem 40 mm
3. Geo Fabric
4. Draining quarry mix 500 mm

DRIVEWAY
1. IPM GeoDrena® 18 mm
2. IPM GeoCem 80 mm
3. Geo Fabric
4. Draining quarry mix 500 mm

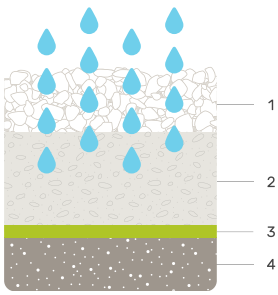


IPM GeoDrena® on GeoBase support

IPM GeoDrena® is installed on GeoBase, a very draining support screed based on aggregates and resin with very low VOC emissions and of variable height depending on the mechanical load and thickness required. Moreover, GeoBase is specific for the recovery of heights and is ready in few hours for further IPM GeoDrena® installation .

PEDESTRIAN-CYCLE
1. IPM GeoDrena® 12 mm
2. GeoBase - draining screed 40 mm
3. Screed 50 - 60 mm
4. Geo Fabric
5. Quarry mix / base layer 500 mm

DRIVEWAY VERSION ON REQUEST



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