



Drenafloor

Let's shine

One-component aliphatic non-yellowing polyurethane binder
for decorative coatings and draining floors

CHARACTERISTICS

DRENAFLOOR is a one-component, solvent-free, odorless, transparent aliphatic polyurethane resin. It is ideal as a binder for the creation of decorative flooring and draining floors. Thanks to its formulation, it hardens with the moisture in the air, resulting in a binding structure with excellent resistance to weathering and wear.

HOW TO USE

DRENAFLOOR must be mixed with natural stones or decorative quartz or granite to create decorative, rigid surfaces for both indoor and outdoor areas such as access roads, pool edges, driveways, porticos, and draining concrete or screed.

SUBSTRATE PREPARATION: the surface must be dry, stable, cohesive, and free from any unwanted residues such as oil, dirt, dust, or other substances that could affect adhesion. It is recommended to evaluate potential consolidation using a primer. Surface slopes or drains are mandatory to avoid water stagnation.

PRODUCT PREPARATION: the desired colored natural stones or decorative quartz, depending on the grain size, should be mixed with approximately 4-6% by weight of **DRENAFLOOR** using a slow-speed drill (approximately 400 RPM) until all the stones are coated with resin. Once the mixture is obtained, it should be transferred to a clean container and briefly mixed again. At this point, there is a working time of approximately 60-75 minutes for application. The application of a bonding layer is not necessary if consolidation has been done with a dusting of quartz. If natural stones (2-4 mm) are used, a minimum coating thickness of 8 mm should be considered. Firstly, distribute the mixture roughly to the desired thickness using a large spatula, and then smooth and press it to around 8 mm. For drivable surfaces with 2-4 mm aggregate, a minimum coating thickness of 18-20 mm is recommended. The minimum thickness for pedestrian areas depends on twice the size of the largest aggregate used, for example:

- aggregate 2-4 mm, minimum coating thickness of 8 mm.
- aggregate 3-6 mm, minimum coating thickness of 12 mm.

Let's shine is a line:

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Drenafloor



200 kg

These values change significantly if there is a need for overlaying existing asphalt pavement (3-4 cm).

To facilitate the smoothing process, especially when using finer-grained quartz, it is recommended to moisten the spatula frequently with a solvent to make the surface more slippery. The surfaces can be walked on cautiously after approximately 8 hours and fully loaded after about 2 days.

- Flexural strength (UNI EN 196-1) $>5 \text{ N/mm}^2$
- Compressive strength (UNI EN 196-1) $>12.5 \text{ N/mm}^2$
- Apparent density (UNI EN 12697-6/2003) kg/m^3

INDICATIVE COVERAGE

Using aggregate with a grain size of 2-4 mm, approximately 15-16 kg of aggregate and 0.750-0.800 kg of **DRENAFLOOR** will be required to achieve a thickness of 8 mm.

USAGE AND HARDENING TIMES

Processing: the processing temperature should be between 8°C and $+30^\circ\text{C}$. Low temperatures slow down the curing process, while high temperatures accelerate it. It is strongly recommended to avoid direct exposure to sunlight during the working phases. Additionally, the resin reacts to moisture, so the surface must be protected from moisture until it is completely dry and should appear perfectly dry. Evaluate the humidity using a digital hygrometer before any application. The mixing times and doses should always be the same to ensure homogeneous processing. Protect the surface from rain during the installation phase and until the end of the curing cycle. For new screed applications, the substrate should be cured for at least 28 days.

Dosages: follow the recommended dosages to avoid surface shading. Excessive binder overdosing can lead to the formation of bubbles and craters.

Aggregates: ensure that the aggregate is completely dry, as moisture presence can cause loss of cohesion. Surface compaction is essential for successful work.

APPLICATION DATA

Base	polyurethane resin and additives
Working temperature	from $+8^\circ\text{C}$ up to 30°C
Pot life	up to 75 minutes
Density (23°C)	1120 kg/cm^3
Viscosity (25°C)	approximately 420 mPas
Color	transparent
Walkable with caution	After approximately 8 hours
Fully loadable and hardened	After approximately 2 days
Usage percentage for 2-4 mm	approximately 5%

STORAGE

The product has a shelf life of 6 months in unopened original packaging when stored in a cool and dry environment at a temperature between 10°C and 30°C .

LIMITS OF RESPONSIBILITY

We decline all responsibility for work and damage which might result from improper or incorrect use of the product. The indications supplied with our product specifications and instructions for use are the results of accurate laboratory tests and experience in the field. However, as it is not possible to forward other evidence, when the products are used, these indications shall not be binding and do not imply liability on our part. As well as following good working practices, before applying the product we recommend you read the safety recommendations and the directions on the package.

For the best professional results, it is advised to test a small area first, for compatibility with the surface to treat and the desired effect. This preliminary testing is also useful to determine the consumption according to the characteristics of the material the product will be used for and to the type of processing. The reproduction, even partial of this product sheet is forbidden. The data refer to the standards in force at the time of printing, 2013. The company reserves the right to make any changes without notice.

PRODUCT FOR PROFESSIONAL USE

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