AQUAFLOOR ECO

Transparent two-component water-based polyurethane coating

Transparent multipurpose two-component water-based polyurethane coating, to be used for protecting various types of surfaces. It creates a low-thickness finish with high abrasion resistance and allows the texture of the product to be coated to remain visible. Designed for protecting resin coatings, it is also suitable for coating bathroom tiles, the *Decorkrete* microcement system, and protecting the surface of *Diathonite Massetto* and *Diathonite Thermostep.047* lightweight thermal screeds or *Decork Design* and *Decork Mediterraneo* cork-based finishes.

YIELD

Total yield: 0.20 kg/m^2 depending on the degree of absorption of the substrate.
The product must be applied in 3 coats.

PACKAGING

Part A - 5 kg plastic bucket;
Part B (catalyst) - 1.25 kg plastic bucket.
Pallet:

- part A – 80 buckets (400 kg);
- part B – 4 cartons (20 pcs each – 80 kg).

APPEARANCE AND COLOR

Transparent	Available in gloss or matt version.

STORAGE

Store the product in its original, well-closed packaging, properly protected from sun, water, frost, and kept at temperatures between +5°C and +35°C.
Storage time: 12 months.

FIELDS OF APPLICATION

The product is suitable for protecting various types of coatings in indoor and outdoor environments. *Aquafloor Eco* improves abrasion resistance and makes the coated surface suitable for foot traffic; furthermore, it allows the texture of the underlying product to remain visible and enhanced. Ideal for coating resin floors, the *Decorkrete* microcement system, or finishes and coatings such as *Floorgum Paint* and *Floorgum Tyre Mono*. Product designed for coating bathroom floors (tiles), or screeds such as *Diathonite Massetto* and *Diathonite Thermostep.047* lightweight thermal screeds. Furthermore, *Aquafloor Eco* is designed to complete *Decork Design* and *Decork Mediterraneo* cork-based finishes.

ADVANTAGES

- Excellent resistance to abrasion and standing water.
- Preserves the color of the underlying surface.
- Suitable for protecting *Diathonite Massetto* and *Diathonite Thermostep.047* lightweight thermal screeds, *Decork Design* and *Decork Mediterraneo* cork-based finishes, and the *Decorkrete* microcement system.
- Facilitates cleaning of coated substrates.
- High resistance to freeze-thaw cycles and UV rays.
- Easy and quick application.
- High versatility.

CONTRIBUTES TO BREEAM®
CONTRIBUTES TO WELL®
CONTRIBUTES TO LEED®
IMPROVES INDOOR AIR QUALITY

DIASEN

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The indications and prescriptions provided, although representing our best experience and knowledge, are to be considered indicative and must be confirmed by exhaustive practical applications. Diasen is not aware of the specific processing details, nor the determining characteristics of the application substrate. Therefore, before using the product, the applicator must in any case carry out preliminary tests to verify its perfect suitability for the intended use and, in any case, assumes all responsibility that may derive from its use. In case of uncertainties or doubts, contact the company's technical department before starting the work, provided that such support is a simple aid for the applicator, who must in any case guarantee the possession of adequate skills and experience for the application of the product and for identifying the most appropriate solutions. Always refer to the latest updated version of the technical data sheet, available on the website www.diasen.com, which cancels and replaces any other.

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SUBSTRATE PREPARATION

The substrate must be completely cured and have sufficient strength. The surface must be thoroughly cleaned, dry, well consolidated, free of friable and loose parts, perfectly leveled and must not show standing water. Before applying the product, it is recommended to cover every element that does not need to be coated. Any cracks or damaged parts of the substrate must be restored before applying the product. To coat *Diathonite Massetto* and *Diathonite Thermostep.047* or *Decorkrete*, it is necessary to sand the substrate beforehand with abrasive sandpaper. The substrate must have a relative humidity lower than 4%. The presence of water or residual moisture makes application difficult, compromises the aesthetic effect, impairs adhesion, and worsens performance.

MIXING

Aquafloor Eco is a two-component product; therefore, it is necessary to use all the catalyst (part B) to allow a complete reaction and perfect drying. Mix the two components (A+B) of *Aquafloor Eco* thoroughly with a professional-type drill mixer. During mixing, lumps form which dissolve by continuing to blend. Proceed with the operation until a homogeneous, lump-free mixture is obtained. Once mixed, the product must be applied within 2 hours; after this time, it could rapidly alter. The first coat of product must be diluted with 30% water; subsequent coats should not be diluted. In the case of application on cork paints, dilute with 15% clean water. Never add foreign components to the mixture.

APPLICATION

1. *Aquafloor Eco* is applied in three coats.
2. Apply a first coat of product (diluted to 30% with clean water) over the perfectly leveled substrate using a short-pile roller.
3. Apply a second and a third coat of undiluted *Aquafloor Eco*. Wait for the previous coat to dry completely before applying the next one. For a better result and a more homogeneous coating, it is recommended to cross the coats. In case of rain on a product that is not perfectly dry, carefully check suitability for subsequent overcoating.

DRYING TIMES

At a temperature of +23°C and relative humidity of 50%, the product dries on average in 2 hours and can be walked on after 24 hours.

- For full commissioning of the product, it is necessary to wait for complete catalysis (7 days from application); during this period avoid contact with water or detergent liquids and the placement of loads of any kind, even temporary, on the flooring.
- Drying times are influenced by the relative humidity of the environment and by temperature, and may vary significantly.
- If applied with a yield greater than expected, drying times could increase significantly.

INDICATIONS

- Do not apply at ambient or substrate temperatures below +5°C and above +30°C.
- During the summer season, apply the product in the coolest hours of the day, protected from the sun.
- Before applying the product, it is recommended to cover every element that does not need to be coated.
- Check for adequate slopes to allow water drainage.
- Do not apply the product in the hottest hours, in case of fog, or relative humidity above 70%.

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- For surface cleaning before applying *Aquafloor Eco*, do not use water.

CLEANING

Once dried, the product is washable with water. Equipment used for application can be washed with water before the product hardens.

SAFETY

For handling, wear personal protective equipment and follow instructions given on the product safety data sheet.

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

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TECHNICAL DETAILS

* The reported data, even if obtained by performing standardized test methodologies, are indicative and may undergo changes as specific job-site conditions vary.

PHYSICAL / TECHNICAL DATA*				
CHARACTERISTIC DATA	**VALUE**			**UNIT OF MEASURE**
Yield	0.20 kg/m² *depending on the degree of absorption of the substrate*			kg/m²
Appearance	liquid			-
Color	transparent			-
Dilution	dilute the first coat with 30% water; on cork paints, dilute with 15% water			-
Application time (pot life) at 23°C, R.H. 50%	2			hours
Waiting time between 1st and 2nd coat (T = 23°C; R.H. 50%)	1 - 2			hours
Application temperature	+5 / +30			°C
	+41 / + 86			°F
Drying time (T = 23°C; U.R. 50%)	3			hours
Walkable	In about 24 hours			hours
Storage	12 months in the original packaging and in a dry environment			months
Packaging	Part A	5 kg	Plastic bucket	kg
	Part B (catalyst)	1.25 kg		

** 1680 hours of accelerated aging correspond to approximately 10 years. This correspondence is purely indicative and may vary significantly depending on the climatic conditions of the place where the product is used.

PERFORMANCE*					
FINAL PERFORMANCE		**VALUE**	**UNIT OF MEASURE**	**NORMA**	**RISULTATO**
Resistance to accelerated aging cycles (Weathering Test**)		1680 (>10 years**)	hours/years	UNI 11507:2007	-
Resistance to bases (undiluted ammonia)		24	hours	-	good
Resistance to undiluted neutral detergent		24	hours	-	excellent
Adhesion on *Decorkrete* product (pull off)		1.0	hours	UNI EN ISO 4624	cohesive failure inside Decorkrete
Abrasion resistance of *Decorkrete + Aquafloor Eco* gloss version system	**Taber Wear Index**	181	-	ASTM D4060	-
Abrasion resistance of *Decorkrete + Aquafloor Eco* matt version system		73	-	ASTM D4060	-
Abrasion resistance of *Decork Design + Aquafloor Eco* gloss version system		70	-	ASTM D4060	-
Abrasion resistance of *Decork Design + Aquafloor Eco* matt version system		55	-	ASTM D4060	-
Water vapor permeability		μ = 1932	-	EN ISO 7783	-

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