

AQUABOND

Adhesion primer for plasters and levelling compounds

Ready-to-use adhesion primer with granular aggregates for creating a good bonding bridge on the types of substrates commonly found in the building trade, ensuring optimal adhesion of plasters, smoothing compounds and tile adhesives. Its dry film is characterised by good grip even on very smooth and waterproof mineral substrates. The product is single-component, ready-to-use and is applied quickly, in a single coat, by roller or brush.

ADVANTAGES

- Quick and easy to apply.
- Elasticity and durability over time.
- Excellent adhesion even on polystyrene slabs.
- Rapid drying.
- Ready to use (aggregates are perfectly in solution).
- Optimises construction time.
- Solvent free product.
- Neither toxic nor flammable.

YIELD

0,20–0,25 kg/m² depending on the degree of absorbency of the substrate.

COLOUR

Water green.

PACKAGING

20 kg plastic bucket.

5 kg plastic bucket.

Pallet:

- No. 36 20 kg buckets (720 kg);
- No. 20 cartons (4 pieces each) (400 kg)

FIELDS OF APPLICATION

Aquabond is designed to improve anchorage on various types of substrates such as cement or lime-based plaster, smoothing plaster, painted plaster, smooth concrete surfaces, prefabricated concrete panels, cork or plasterboard panels, stone, wood, metal, glass

or unglazed tile substrates. Thanks to the adhesion given by the product, these substrates can be coated with *Diathonite* line plasters, other lime-based plasters, cement plasters, smoothing compounds, tile adhesives, paints and other types of acrylic coatings. The product can be applied both indoors and outdoors.

STORAGE

The product must be stored in its original, perfectly closed containers, in a well-ventilated place, away from sunlight, water and frost, at temperatures between +5°C and +35°C.

SUBSTRATE PREPARATION

The substrate must be completely hardened (properly cured) and have sufficient strength. The surface must be thoroughly clean, dry, well consolidated and free of crumbling and loose parts.

Old Plaster

Ensure the plaster is solid and well-adhered to the substrate; otherwise, partial or total removal may be necessary. For painted plaster, ensure the paint is well-adhered by tapping on several points of the surface.



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Given the wide variety of paints available on the market, it is recommended to carry out a test to verify the system's adhesion.

However, as with any plaster, to ensure optimal breathability and adhesion to the substrate, the existing paint should ideally be removed.

If the paint is well-adhered, it is the applicator's responsibility to verify its stability and compatibility with the plaster.

Panels

Ensure that the panels are well fitted together and that there are no open joints. Due to the large variety of panels on the market, we recommend carrying out a system adhesion test.

Wood

Thoroughly clean the surface by removing dust, brittle parts and loose flakes. The wood must be completely dry, well cohesive and dimensionally stable. On painted or treated wood, carry out a preliminary test to check adhesion.

Metal

Clean the surface thoroughly, removing dirt and any loose paint. If rust is present, treat the surface with a suitable anti-rust product before applying

Aquabond. If the metal surface is painted, it is advisable to carry out a test to check the perfect adhesion of the system.

MIXING

Aquabond is ready to use, it is recommended to mix it before application to make the product homogeneous.

In extremely hot weather conditions, you can add 5% clean water and continue mixing. Never add foreign components to the product.

APPLICATION

1. Apply *Aquabond* in a single coat by roller or brush, taking care to cover the surface perfectly.
2. In the event of rain on a product that is not perfectly dry, it is recommended to carefully check its suitability for subsequent coating.
3. On particularly absorbent substrates, it may be necessary to apply the product in several layers.
4. Once *Aquabond* has dried, the substrate should feel rough to the touch and take on a greenish colour.
5. Wait until *Aquabond* is completely dry before applying the plaster.

DRYING TIMES

At a temperature of 23°C and 50% relative humidity, the product dries in 30 minutes.

- Drying times are influenced by the relative humidity of the environment, the temperature and can vary significantly.
- If applied in larger quantities than expected, the drying time may increase significantly.
- After the drying time has elapsed, the chosen type of coating can be applied. The coating must in any case be applied within 30 days of applying *Aquabond*.

SUGGESTIONS

- Do not apply at ambient and substrate temperatures below +5°C and above +35°C.
- During the summer season apply the product during the cooler hours of the day.
- Do not apply with imminent danger of rain or frost, in conditions of heavy fog or with relative humidity higher than 70%.
- Protect the product from contact with water until completely dry.
- Do not wet the primed surface before applying the plaster.
- Do not apply on linoleum substrates.



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- Before applying the product, it is recommended to cover any elements that are not to be coated.

CLEANING

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

SAFETY

Always use personal protective equipment when handling and follow the product's safety data sheet.

* These data, although carried out according to standardised test methods, are indicative and may be subject to change as specific site conditions vary.

Technical Data *

Features		Units
Yield	0,20 – 0,25 kg/m ² <i>according to the absorption degree of support</i>	kg/m ²
Aspect	liquid	-
Colour	green	-
Mixing water	If necessary, 5% water	-
Application temperature	+5 /+35	°C
Drying time (T=23°C; U.R. 50%)	30	min
Storage	12 months in original containers and in dry places	Months
Packaging	20 kg (4.07 gal U. S.) plastic bucket and 5 kg (1.02 gal U. S.) plastic bucket	kg gal U. S.

Final performances			Units	Regulations	Results
Adhesion on cement supports	Adesion test pull off	> 4,0	N/mm²	-	excellent
Adhesion on wood		> 4,0	N/mm²	-	excellent
Adhesion on metal		> 4,0	N/mm²	-	excellent
Adhesion on glass		> 4,0	N/mm²	-	excellent
Adhesion on plasterboard		1,0	N/mm²	-	sufficient
Adhesion <i>Aquabond + Diathonite Evolution</i> on cork panel		85,5	N/mm²	-	good
Water vapour permeability		μ = 788	-	UNI EN ISO 7783	-



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The indications and prescriptions given, while representing our best experience and knowledge, are to be considered indicative and must be confirmed by exhaustive practical applications. Diasen does not know the specifics of the application and even less the determining characteristics of the application support. 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, assume all responsibility that may arise from its use. In the event of any uncertainties or doubts, contact the company's technical office before starting work, it being understood that this support is merely an aid for the applicator, who must in any case guarantee that he/she possesses adequate skills and experience for laying the product and for identifying the most suitable solutions. Always refer to the latest updated version of the technical data sheet, available at www.diasen.com which cancels and replaces all others.


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Weathering test resistance	1000hours (>5 years**)	hours/years	EN ISO 11507 ASTM D4587	-
Resistance to 50 freeze-thaw cycles (15°C/+15°C) (59°F/+59°F)	unchanged	-	EN 202	unchanged

Indoor Air Quality (AIQ) 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)	
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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