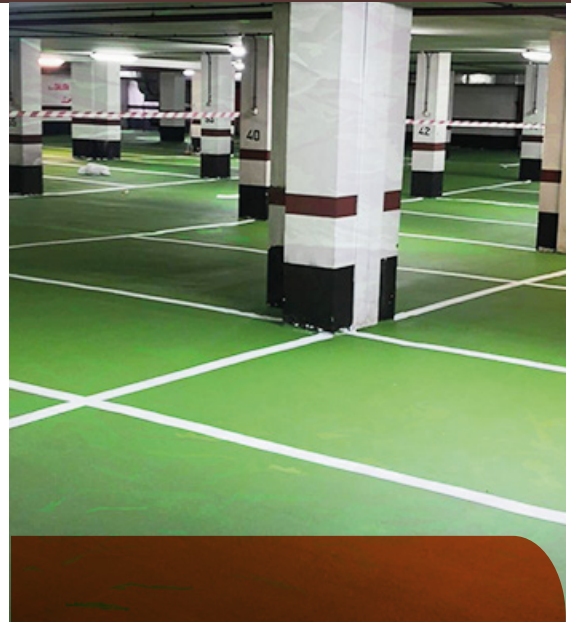


AplicaFLOOR EP W

Water-based epoxy resin system for coating and paving



Usable for painting, self-levelling or multilayer



Solvent and odour free



High resistance to chemical agent

DESCRIPTION

AplicaFLOOR EP W is a dual-component, pigmented, flowable and water-based epoxy coating that forms a continuous, aromatic coating. It has medium chemical and mechanical resistance and is suitable as a finish for industrial flooring and road traffic. It has been certified for migration to drinking water and food contact (EN 1186-1:2002, EN 1186-3:2002, EN 1186-14:2003), and has been awarded the European standard for the protection of structural concrete (EN1504-2:2005).

USES

Epoxy resin for the following uses:
 Finishing of concrete floors in workshops, garages and warehouses with medium mechanical stress.
 Protection against spills of liquids and aggressive chemicals.
 Finishing of garage floors.
 Applicable on concrete substrates in general (interior areas).
 NOTE: consult our technical department for application on other types of substrates or settings.

PRESENTATION

Metal containers in the following format: COMPONENT A: 20.00 kg + COMPONENT B: 5.00 kg.

COLOURS

Green. Grey. Other RAL colours on request.

EXPIRY

The shelf life of both components is 24 months stored at a temperature between 5 °C to 35 °C in dry locations. Once opened, the drum must be used.

FEATURED

Density at 23°C	±1.30 g/cm ³
Drying at 23°C	±4~5 hours
Total cure at 23°C	±7 days
Repainting at 23°C	5-7 hours
Pedestrian/vehicular traffic at 23°C	±24 hours/ 5 days
Application method	Roller

AplicaFLOOR EP

Rev - 07/2024

GENERAL CHARACTERISTICS

- Excellent adhesion and high hiding power. Breathable (permeable to water vapour).
- Solvent-free, odourless. Do not add solvents to the mixture. Resistant to chemical agents.
 - Easy cleaning with water (in fresh state). Satin-gloss finish.
 - We strongly recommend applying product with matching manufacturing batch numbers in each area. In this way a uniformly blended colour is achieved.
 - Water can be added to improve the workability of the mixture, although in a maximum proportion of 5-10%.
 - Both the temperature of the substrate and the ambient temperature must be at least 3 °C higher than the dew point at the time of application. This reduces the risk of condensation.
 - After 7 days the material will be fully cured. Until then, it must be protected from direct contact with water or other reagents.
 - The application of AplicaFLOOR EP W must be carried out in conditions where there is no moisture or water coming from the substrate, either at the time of application or afterwards (water table pressure.)
 - In the case of existing moisture in the substrate at the time of application, consult the technical data sheets of our primers where the maximum moisture ranges are specified.
 - Do not apply where it will be exposed to external UV rays, since it is an epoxy material and its initial colour will shift to yellow.
 - Do not under any circumstances apply to substrates treated with high alkalinity products.
 - It is necessary to ensure effective ventilation of the treated area to aid the curing of AplicaFLOOR EP W and avoid changes of tonality in the finish.
 - After 7 days the material will be fully cured. Until then, it must be protected from direct contact with water or other reagents.
 - Certification for use in contact with drinking water (RD140-2003), and contact with food (EN1186-1:2002,EN1186-3:2002,EN1186-14:2003), as well as certification for protection of structural concrete (EN 1504-2:2005).

APPLICATION PROCEDURE

The following factors should be taken into account during the application process:

Substrates

- The concrete slab must be clean and free of grease, oil, surface laitance, curing liquids or other treatments such as silicones or deteriorated paints.
- The surface must have its pores open, so it is essential to start work with treatment involving milling or shot blasting and subsequent vacuuming of the dust generated.
- Sanding is not recommended as a rough, open-pore surface is required to ensure the anchorage of the primer.
- The substrate may be damp, but be careful not to apply AplicaFLOOR EP W to concrete with water exudations or in areas where the water table may affect the adhesion of the system components. Otherwise, blisters may be present on the surface of the coating.

Priming

- It is advisable to apply AplicaPROOF PRIMER EP ALL as a first step, in order to improve the adherence to the surface, although in the case of substrates with sufficient porosity, it is possible to apply a coat of AplicaFLOOR EP W diluted 5-10% with clean water as a primer.
- Once the primer has been applied, it is necessary to wait for it to dry before applying the AplicaFLOOR EP W.

Mixing

- AplicaFLOOR EP W is presented in containers prepared in the appropriate proportions for subsequent mixing - partial mixtures are not recommended. Uniformly blend the container of component A, then pour the contents of Comp. B over Comp. A and mix with a drill equipped with an agitator on a low revolution setting until a uniformly blended product is obtained. Special emphasis should be placed on agitating the walls and bottom of the container.

Cleaning

- The product may be cleaned with water while fresh; but by mechanical means only once hardened.

AplicaFLOOR EP

Rev - 07/2024

APPLICATION TYPES

Once the substrate has been prepared and the primer has been applied, according to conditions, the polyurethane membrane will be applied according to the following methods:

Paint

- Open the containers and uniformly blend both products using mechanical agitation equipment. Mix the two components until a uniformly blended product mixture is obtained.
- Apply an initial coat of AplicaFLOOR EP W. A brush, short-nap roller or airless spray gun can be used for the application.
- Wait until completely dry.
- Apply the second coat. Application can be by brush, short-nap roller or airless spray gun. On very absorbent substrates or for very light colours, it may be necessary to apply a third coat of AplicaFLOOR EP W.

Multilayer

- With this system, an anti-slip surface is achieved in order to provide the system with a degree of slip resistance (according to CTE DB SUA).
- Open the containers and uniformly blend both products using mechanical agitation equipment. Mix the two components until a uniformly blended product mixture is obtained
- Apply an initial coat of AplicaFLOOR EP W. A brush, short-nap roller or airless spray gun can be used for the application.
- Wait until completely dry.
- Sprinkle the surface with siliceous aggregate until it is saturated.
- Once hardened, the excess aggregate must be removed by sweeping. Lightly sand the surface and then vacuum up the resulting residues.
- Apply a second coat of AplicaFLOOR EP W with the help of a rubber rake, finishing with a short-nap roller.
- Consumption is approximately 250-300 g/m² per coat applied, depending on the roughness of the substrate.
- If there is high relative humidity during application and drying, a matte or possibly whitish finish may result due to water drying difficulties. To avoid this, it is advisable to try to ventilate the environment during both application and the first 24 hours of drying, if possible with forced ventilation.

SUMMARY OF YIELDS OR CONSUMPTION

(DEPENDING ON THE SUBSTRATE AND APPLICATION SYSTEM)

PROPERTIES	PAINT	MULTILAYER
AplicaPROOF PRIMER EP	150-200 g/m ² (depending on substrate)	150-200 g/m ² (depending on substrate)
AplicaPROOF EP	250 g/m ² /coat	250 g/m ² /coat + aggregate dusting+300 g/m ² /coat

AplicaFLOOR EP

Rev - 07/2024

HANDLING AND TRANSPORT

These safety recommendations during handling are necessary during the execution process, as well as in the processes before and after the execution in situations of exposure to machinery under load.

- **Skin Protection:** Wear rubber gloves. Remove immediately after contamination. Wear clean clothes that cover the whole body. Wash thoroughly with soap and water after work and before eating, drinking or smoking. Contaminated clothing should be washed and/or dry-cleaned.
- **Eye/face protection:** Safety glasses must be worn to avoid splashes.
- **Waste:** Waste generation must be avoided or minimised. Incinerate under controlled conditions in accordance with local and national laws and regulations. In any case, consult the existing safety data sheets of the product.

COMPLEMENTS

When applying the AplicaFLOOR EP W system, the following products can be applied as complements to its use. They may thereby be protected and their physical-mechanical characteristics improved depending on their exposure, the desired finish or external conditioning factors.

- **AplicaPROOF PRIMER EP:** for pre-levelling of the substrate, when applying a single self-levelling layer. Epoxy resin with fillers included.
- **AplicaROOF PRIMER EP ALL:** primer to be pre-applied on the substrate to improve adhesion, in situations where humidity may be present in the substrate at the time of application.
- Performance may vary depending on the type of substrate, its nature or surface texture.

NOTE: Consult the technical data sheets or our Technical

AplicaFLOOR EP

Rev - 07/2024

TECHNICAL CHARACTERISTICS

PROPERTIES	RESULT
Density at 23 °C ISO 1675	±1.30 g/cm ³
Viscosity at 23 °C ISO 2555	1,500 cps
Density comp. A at 23 °C ISO 1675	±1.30 g/cm ³
Density comp. B at 23 °C ISO 1675	±1.10 g/cm ³
Viscosity comp. A at 23°C ISO 2555	1,400 - 1,800 cps
Viscosity comp. B at 23°C ISO 2555	600 - 700 cps
Solids content ISO 1768	±65%
VOC (volatile organic compounds)	0 g/l comp. A + 0 g/l comp.B
Shore hardness D at 7 days at 23 °C	>75
Adhesion on concrete	>2 MPa
Shelf life at 23 °C	±60 minutes
Initial drying at 23 °C	±4 - 5 hours
Drying at 23 °C	4 - 6 hours
Full curing at 23 °C	±7 days
Recoating time at 23 °C	5-7 hours
Time before use: pedestrian / vehicular at 23°C	±24 hours / 7 days
Application temperature range: substrate / ambient	8 °C - 30 °C / 10 °C - 30 °C
Resistance to ambient service temperature	-20 °C - 80 °C
Resistance to abrasion TABER UNE EN ISO 5470- 1:1999	Mass loss = 262 mg
Permeability to liquid water (EN 1062-3:2008)	w< 0.1 kg/m ² *h*0.5
Maximum ambient humidity	± 80 %

CHEMICAL RESISTANC

Sulphuric 20%	** (possible discolouration)	***Resistant **Limited resistance with loss of properties *Resistant to occasional spills/splashes NOTE: Resistances measured during constant immersion for 21 days at 23
Hydrochloric 5%	** (possible discolouration)	
Nitric 10%	** (possible discolouration)	
Phosphoric 5%	***	All the values included in the above table are approximate and may vary depending on the situation of the substrate or the application methodology used
ALKAL		
Caustic soda 50%	***	
Caustic potash 50%	***	
Ammonia 25%	***	
SOLVENTS AND FUELS		
Ethanol	***	
Xylene	***	
Biodiesel	***	
OILS		
Brake fluid	***	
Fuel oil	***	
Hydraulic fluid	***	

NOTE

The recommendations for use are based on our knowledge and experience. The technical data have been obtained under normal laboratory conditions and may vary depending on the conditions of installation. As the conditions of application are beyond our control, the information in this sheet does not imply any liability on the part of the company.