

Technical Data Sheet

ACE DECOFLOOR 150

DESCRIPTION

ACE DECOFLOOR 150 is a cold-applied aliphatic polyaspartic polyurea system for cold application, with in which continuous, flexible, hygienic pavements are created IN-SITU, with decorative finishes and fire classified as BFI-S1.

Its extremely high modulus of elasticity allows it to be used in extreme conditions on metal substrates, aerial structures, or in areas with intense vibration and significant movement.

It is suitable for both indoor and outdoor applications, as it offers excellent weather and UV resistance.

The drying time of ACE DECOFLOOR 150 is significantly shorter than that of polyurethane or epoxy systems, allowing for foot traffic in just two hours.

For all these reasons and for its rapid commissioning, are the ideal solution for floors in hospitals, industries agri-food, vehicles, schools... that require a large resistance, high durability and decorative finishes.

The system also offers a 100% solids version designed for flooring applications in industries where solvents or strong odors are not tolerated.

PROPERTIES OF THE SYSTEM

- Excellent resistance to wear and UV.
- Fast curing time, treated areas can be transitted within hours.
- Excellent looks, high gloss, it may have decorative finishings.
- High solids content allows for thick single layers.
- The system cures even under low temperatures.
- Low odor.
- High flexibility and adhesion to a wide range of prepared substrates.
- Excellent corrosive protection for metals.
- Superior hardness.
- Good resistance against cleaning products and a wide range of chemicals.
- A Class 3 anti-slip finish can be obtained according to UNE EN 12633:2003.
- Excellent fire performance.

SCOPE

- UV protector for ACEFLOOR cold or hot-applied polyurea flooring systems
- UV protector for ACECOPOX epoxy-based flooring systems
- Decorative, continuous, and hygienic flooring for hospitals, bus stations, libraries, supermarkets, markets, etc. Classified BFI-S1 for fire resistance according to UNE-EN 9239-1 and 11925-2
- Cold storage room floors

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COMPONENTS INFORMATION

DESCRIPTION	COMPONENT A (isocyanate)		COMPONENT B (polyaspartic resin)	
Physical state	Liquid		Liquid	
Solids content	100%		100%	
Flash point	>100°C		38°C	
Color	Transparent		Transparent/color RAL	
Density	1,15 gr/cm ³		Transparent: 1gr/cm ³ Pigmented: according to color	
Viscosity (Brookfield)	Temp. (°C)	Visc. (mPas)	Temp. (°C)	Visc. (mPas)
	35	260	35	15
	25	450	25	25
	10	725	10	45

SYSTEM INFORMATION

Mixing ratio	Transparent: 100% solids: 100A : 82 B in weigh Pigmented: 100% solids: 100A: 56 B in weigh	At 80% solids 100A: 83.5B in weigh At 80% solids 100A: 64B in weigh (RAL 7043)
PROPERTY	RESULT	NORM
Pot life	Temp. 23°C y HR 40%: 30 minutes	EN ISO 9514
Viscosity	Transparent: 105 mPas Pigmented: 115 mPas	EN ISO 2555
Hardness (SHORE D)	52	UNE EN 53510
Elongation	> 150%	UNE EN 53130
Tensile strength	≥ 16 Mpa	UNE EN 53130
Adhesion	On polyurea membranes: > 1,75 Mpa On concrete: > 3 Mpa	EN 1542:1999
Aging in chlorinated water 3 ppm at 75°C	No visible color change after 6 months	I.T.
UV resistance after aging in chlorinated water	Delta 0,55	QUV 1000h
Crack-bridging ability (-30°C)	Comply 2,00 mm	ETAG 005/EAD A4-10

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STORAGE AND SHELF LIVE

Store at a temperature between 10-30 °C away from moisture.

The product can be used up to 12 months after the date of manufacture if kept in its original sealed containers.

SUPPORT REQUIREMENTS

The substrate to be treated must be sound, with an open pore structure and the required levelness, or a self-leveling compound should be applied beforehand.

The substrate must be dry, with a surface moisture content below 4%, minimal capillary humidity, and no water pressure. If moisture is suspected in the substrate, a suitable primer such as ACE EPOPRIMER 52WB should be used.

It must be clean and free from rust, grease, oils, loose coatings, or any contaminants that could negatively affect the system's adhesion.

The substrate temperature should be between 10°C and 25°C, and always at least 3°C above the dew point. On new concrete or mortar, you must wait at least 28 days for total setting.

ENVIRONMENTAL CONDITIONS OF HUMIDITY AND TEMPERATURE

Room temperature must be between 8 °C and 30 °C and the relative humidity must not exceed 60% unless it does not reach dew point.

SUPPORT PREPARATION

1. Polyurea or polyurethane elastomeric membranes:

The system has direct adherence without requiring primer or special preparation on clean, dry membranes and with a temperature >3 °C above dew point. They should only be cleaned with acetone beforehand.

2. Concrete:

An open pore must be ensured, so mechanical treatment will be done with a diamond-tipped sander for its preparation. After blowing and vacuuming, ACE PRIMERFLEX PLUS 100% solids primer, ACE EPOPRIMER BV water-based epoxy or ACE EPOPRIMER 100 with a dose of 200ml/m² will be applied, always respecting the drying times before applying ACE DECOFLOOR 150.

3. Steel:

In case of application on steel, mechanical treatment will be carried out by blasting or shot blasting until obtaining an SA 2 ½ grade and after a good cleaning, anticorrosive primer ACE EPOPRIMER or ACEBOND will be applied with the equipment indicated in the HT and respecting the drying times before apply ACE DECOFLOOR 150.

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APPLICATION

Before application, shake each one of the components separately in its individual container, shaking at low revolutions (300-400 rpm) so as not to aerate the product.

Then mix the two components together for at least three minutes and apply the product for the next 15 minutes. Try not to make large quantity mixtures and remember that at higher temperatures the workability time decreases.

For roller application, use a sponge or synthetic type, with short hair, anti-drip or anti-splash of those commonly used for epoxy paints.

May be thinned with up to 20% butyl acetate or xylene (slower cure).

It can be applied over the polyurea waterproofing membrane on the same day.

As a coating system, it is applied over a prepared and primed substrate in one or two layers — typically a pigmented first coat and a transparent finishing coat. For decorative flooring, the following steps are recommended:

- PRIMING according to the type of substrate
- BASE layer of pigmented ACE DECOFLOOR 150, onto which color vinyl or quartz chips are sprinkled, micronized to provide a non-slip and/or decorative finish
- TOPCOAT with one or two coats of transparent ACE DECOFLOOR, highly resistant to scratching and wear

This type of multilayer flooring system allows for an interval between coats of just 1.5–2 hours, with the flooring ready for use a few hours after the final coat.

The total system thickness would be approximately 1 mm, including the chips or aggregates. While it can conceal many substrate imperfections, if the surface is highly uneven, a polyurethane or epoxy self-leveling mortar such as ACE EPOPRIMER 100 with aggregates in a 3:1 ratio should be applied first.

(*) For porous substrates (concrete, wood, mortars, etc.), uses the primer PRIMERFLEX 100% solids, and an epoxy primer for non-porous and vitrified substrates, EPOPRIMER or ACEBOND, with ultra-fast curing.

CURING TIMES

Curing times can vary depending on environmental conditions, increasing the speed of drying with increasing temperature and humidity and decreasing with increasing thickness.

Values with 250 gr/m²:

Environmental conditions	Curing to the touch	Total	Light traffic
22°C. 40% HR	1.5h	3h	3h
8°C. 50% HR	2.5 h	5h	5h

Water contact: consult our technical service.

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CONSUMPTION

ACE DECOFLOOR 150 can be applied in any thickness, the usual being 150gr/m² per coat. In pavements and for decorative or non-slip finishes, two coats will be applied, sprinkling chips, mineral aggregates or microspheres between the two coats. For contact with chlorinated water, one or two colored coats and a transparent finishing coat will be applied.

TOOL CLEANING

Component A and B can be cleaned with solvent. Given the rapidity of the product's drying, A+B mixture stains must be cleaned quickly with special stripping products or mechanical means.

MAINTENANCE

Daily wet scrubbing can be done with neutral PH soap products. Solvents should be avoided for cleaning as they can severely damage the product.

SAFETY AND ENVIRONMENT

ACE DECOFLOOR 150 contains isocyanates and flammable solvents. The handling of these products requires prior consultation of the safety data sheet.

Ensure good ventilation in the work area, avoid product inhalation or skin contact with the product by wearing goggles, gloves and face mask at all times.

This is a product intended exclusively for professional users.

Empty containers must be handled as hazardous waste and must be delivered to an authorized waste manager, for treatment according to applicable legislation in your area. Do not pour waste into drains or rivers.

WARRANTY AND LIMITATIONS OF LIABILITY

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