

Technical Data Sheet

ACE SP FLEX

DESCRIPTION

ACE SP FLEX is a poliaspartic polyurea system with excellent mechanical properties.

It is a waterproof and flexible cold-applied system that, due to its aliphatic nature, is UV stable and can therefore be applied both indoors and outdoors without changing color or practically losing its shine.

Available transparent or pigmented according to the RAL chart. In case of application as a protective finish for aromatic waterproofing membranes, it should always be applied in color.

ACE SP FLEX curing and transit time is much lower than that of polyurethane systems, and dries quickly even at low temperatures, thus allowing a rapidly ready-to-use surface.

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 ACE polyurea and aromatic polyurethane systems.
- Coating of swimming pools, lagoons or fountains.
- Decorative, continuous and hygienic flooring for hospitals, bus stations, libraries, supermarkets, markets, etc. Classified BFI-S1 to fire according to UNE-EN 9239-1 and 11925-2.
- Cold rooms.
- Coating of all types of metal and concrete elements in aggressive environments.

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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

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 support to be treated must have an open pore and the following minimum mechanical resistance:

-Minimum tensile strength of 1.5 N/mm².

-Resistance to compression: minimum 25 N/mm².

The support must be dry, with surface moisture less than 4%, minimum capillary moisture and no water pressure. If substrate moisture is suspected, a suitable primer should be used.

It must be clean and free of rust, grease, oil, loose coatings or any contaminant that will adversely affect the adhesion of the system.

The temperature of the support must be between 10 °C and 25 °C and always 3 °C above 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 SP FLEX.

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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 SP FLEX.

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.

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.

CONSUMPTION

ACE SP FLEX 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.

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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 SP FLEX 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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