

Technical Data Sheet

ACE SOLUFLEX CP2

DESCRIPTION

ACE SOLUFLEX is a two-component pure aromatic polyurea waterproofing product, applied manually in cold and with very fast curing.

In just minutes, it forms a seamless, joint-free, watertight membrane with high flexibility and excellent mechanical properties.

Being 100% pure polyurea, it is not sensitive to ambient humidity, and its fast curing allows for thick applications in a single layer.

FIELD OF APPLICATION

- Roofs, balconies and terraces.
- Areas with heavy pedestrian and vehicular traffic.
- Concrete slabs waterproofing.
- Green roofs and planters.
- Elevated tanks and containment basins.
- Pools, fountains, ponds
- Industrial repairs
- Repairs of other polyurea systems

ADVANTAGES

- Allows for high-thickness layers in a single coat
- Facilitates waterproofing in hard-to-reach areas or windy conditions where spraying is not possible
- Fully bonded waterproof membrane to properly prepared substrates. Adhesion to the substrate prevents potential leaks from spreading between the surface and the membrane, making it easier to locate and repair damage. It also prevents wind-induced delamination
- Elastomeric and flexible, it adapts to substrate movements and is capable of bridging cracks
- Excellent performance: high wear resistance, great elongation, and tear resistance
- Due to its hardness and excellent wear and abrasion resistance, it withstands pedestrian and vehicular traffic
- Chemical resistance: protects against fuel spills and other chemical products



Planta de fabricación:

Pº Industrial C/Bajo Sombra, 24
Hondón de las Nieves 03688
Alicante

Dirección Corporativa:

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ACE COATINGS LATAM SPA

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PROPERTIES OF COMPONENTS

PROPERTY	Results	Test
Density comp. A a 73,4°F (23°C)	1,05 g/cm ³	EN ISO 2811-1:2011
Density comp B a 73,4°F (23°C)	1,35 g/cm ³	EN ISO 2811-1:2011
Mixing Ratio (Side A/ Side B), by Volume	2 : 1 A/B	
Solids contents A+B	97 %	248°F (120°C) 1 h
VOC contents	3 %	248°F (120°C) 1 h
Pot life @ 20°C	30-35 (*) min	
Recommended film thickness	1,5-2 mm/ m ² (one pass)	
Consumption per pass (for 1 mm thickness)	1,4 Kg/m ²	

(*)This parameter can change significantly depending on the ambient and substrate temperatura.

PROPERTIES OF MEMBRANE

PROPERTY	Results	Test
Break Resistance	11 ± 10% Mpa	ASTM D 412
Elongation	700 %	ASTM D 412
Abrasion resistance: Taber: H22	180 Mg	EN 5470-1:2001
Tear resistance	56 N	UNE 53516
Hardness (Shore A)	71	ASTM D 2240
Drying time (*)	Initial 40'/surface 2h/ total 6h/transit 24h	ASTM D 5895
Complete curing time	5-6 días	
Radon diffusion coefficient D (m ² s ⁻¹)	10 ⁻¹¹	ISO/TS 11665-13
Temperature resistance: Ambient thermal resistance Resistance to hot water at 60°C Substrate temperature in use	- 40°C / 165°C Suitable L4 - 20°C / 90°C	ETAG 005 ETAG 005

(*) The reported data refers to the product applied in the laboratory and conditioned at an ambient temperature of 22°C with an average humidity of 57% for 7 days.



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APPLICATION OF SOLUFLEX: SUBSTRATE PREPARATION

ACE SOLUFLEX is applied by pouring the mixture onto the previously prepared substrate and spreading it with a notched trowel, rubber lip or roller and using a spatula in detailed areas.

APPLICATIONS ON CONCRETE / MORTAR:

1. The substrate must be firm and in the case of concrete must have been cured for at least 28 days and have a PH between 9-12.
2. The surface must be structurally sound, free of laitance and contaminants such as rust, grease, grease or salts, and thoroughly and completely clean and free of dust, vegetation or any other agent that may adversely affect adhesion by dry techniques or hydro-cleaning.
3. The substrate must be dry (less than 5%, ASTM D 4263) and with minimal moisture vapour transmission (less than 3lb/24hr/1000 ft² RMA Test Method).
4. For surface preparation and pore opening the surface shall be mechanically treated to a minimum profile of CSP 3 in accordance to ICRI 03732 by diamond grinding, shot blasting, or any other valid preparation technique. Once the mechanical treatment has been carried out, the contaminants generated shall be removed leaving the resulting substrate clean and dust free.
5. If there are cracks, they shall be treated according to their nature with ACE MP 4035 putty or injection resins, cracks and fissures of >1.5 mm will be filled with elastic putty ACE MP-4035 or ACE mortar EPOPRIMER 100 + aggregates to obtain a uniform surface.
6. Once the joints have been sealed with ACE MP 4035 mastic plus ACEBAND strips or sealed with ACE POLYSEAL joint sealant and singular points have been properly treated, a primer shall be applied to the whole surface to improve the condition of the substrate and to promote adhesion. Then apply the polyurea system respecting the minimum and maximum recoat time of the primer that you will find in its data sheets and always when the substrate temperature is at least 3°C higher than the dew point.

Primers suitable for concrete / mortar:

ACE PRIMERFLEX PLUS, ACE EPOPRIMER 100, ACE EPOPRIMER 52WB.



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APPLICATIONS ON STEEL

1. Mechanical treatment for cleaning and roughness profile opening must be carried out. Before blasting before blasting, the steel surface shall be cleaned according to SSPC-SP1 to ensure the total absence of both visible and non-visible contaminants using solvents, water vapour, alkaline solutions, soap emulsions, detergents or organic solvents that remove contaminants such as grease, oil, dust and salts soluble in the cleaning agent from the substrate. A maximum surface chloride content of $< 3 \text{ ug/cm}^2$, NACE 6G186, CHLOR*RID
2. All imperfections in the substrate shall be removed from the substrate, sharp edges or pointed ends shall be removed from the substrate using power tools and the entire surface shall be mechanically treated by shot blasting or air blasting to "near white metal" grade SSPCSP-10 No. 2 / SA 2 ½ and roughness profile 50-75mic. (75 mic. required for immersion).
3. After thoroughly cleaning the surface, a primer will be applied. On the same day, before the prepared steel surface can become re-contaminated or oxidized, the next layer must be applied.
4. The coating may only be applied if the substrate temperature is at least 3°C above the dew point to prevent condensation, and if the primer is cured, dry, clean, and within its recoat window.

Primers suitable for Steel:

ACEBOND, ACE EPOPRIMER 100, ACE EPOPRIMER, ACE EPOPRIMER FZ.

GEOTEXTILE APPLICATIONS

1. The use of short pile, non-woven polypropylene geotextiles with heat protection treatment is recommended.
2. The geotextiles shall be sprayed over the surface to be treated, overlapping each other by about 15 cm, avoiding wrinkles and removing any element that could damage them from the substrate.
3. Do not walk on the geotextile until the coating has been applied to avoid tearing or fraying of the geotextile.
4. Apply the liner starting in the centre and working towards the contour of the surface. Allow the membrane to set for at least 1 hour before applying at the crowning if the treated geotextile will not end up in the drainage screed.

OTHER SUBSTRATES

For application procedures on other substrates, please contact our technical staff or your local representative for information.



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APPLICATION PROCEDURE AND PROCESSING PARAMETERS

1. Component B of the system must be agitated to homogenise its content and colour by using an electric drill with low speed blades before mixing with the other component. The two components shall then be thoroughly mixed together.
2. **ACE SOLUFLEX** is applied by pouring the mixture onto the previously prepared substrate and spreading it with a spread it with a notched trowel, rubber lip or roller and using a spatula in areas of detail.
3. Apply **ACE SOLUFLEX** consistently and uniformly to the required thickness in a single application; if re-application is required on the same day, to add thickness or to seal a pore e.g., apply the membrane in the same day; make sure that the polyurea is still clean and dry before applying the new coat and preferably do so after 1-2 hours to ensure the best adhesion. When applying new polyurea on already cured membrane (overlaps of the following days, repairs,...) you must first lightly sand and clean the surface with acetone, or use ACE-400 activator or ACE PRIMERFLEX PLUS primer.
4. When ACE SOLUFLEX polyurea is applied outdoors and shall not have any type of heavy protection such as a garden, ceramic tiles, slabs, etc., it must be protected from UV radiation by applying an aliphatic top-coat such as ACE 365, ACE 373 PLUS or ACE SP FLEX. The UV protective topcoat should be applied on the same day as the polyurea.
5. Remember that both primers and polyurea or top-coats should only be applied when the substrate temperature is at least 3°C higher than the dew point and always respecting the information provided in the technical data sheets:
 - The minimum and maximum recoating times indicated.
 - The appropriate ambient and substrate temperature and humidity
6. The system contains isocyanates, so the user must have a certificate of handler, since these products are for professional use only. Refer to the Safety Data Sheet before use and wear the recommended safety clothing and respiratory protection equipment at all times. Proper application of the product is the responsibility of the user.

PRESENTATION

Sets of 1 kg B + 2 kg A

Sets of 4,25 kg B + 8,5 kg A



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STORAGE AND TRANSPORT

Component A/ Isocyanate:

The original drums must be kept perfectly sealed in order to prevent contamination due to moisture or any other materials that may have a negative impact on the processing of the product. This product reacts slowly with water creating polyureas and liberating CO₂, which may cause the sealed drums to expand and break.

This product is hygroscopic and therefore the drums have to be sealed to prevent the absorption of moisture, which could affect its processing negatively.

It is recommended to store this product between 75 °F – 104 °F (24 °C – 40 °C) and it can be stored 12 months by keeping the product in the original containers properly sealed.

Component B/ Aminic resins:

Keep this product in closed containers and observe the warnings on the safety data sheet. It is recommended to store this product between 50 °F – 113 °F (10°C – 45 °C) and it can be stored 12 months by keeping the product in its properly sealed original containers.

The transport of the products will be carried out in accordance with the legislation in force in each territory regarding land and sea transport, and air transport is not allowed. See safety for the classification of the substances in each case.

WASTE MANAGEMENT

In accordance with the provisions of Law 11/1997 and Article 18.1 of the Regulations that develops "the person responsible for the delivery of the packaging waste or used packaging for its correct environmental management will be the final holder of it."

GUARANTEE AND LIMITATIONS OF LIABILITY

Ace Coatings warrants solely that the quality of the product meets its stated specifications at the time of production and that the product is delivered free of any legitimate third party claims of misuse of US patents associated with the product.

Ace Coatings disclaims all other warranties expressed or implied by law or trade practice, including but not limited to any warranty of fitness for a particular purpose or use.



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Any claim submitted under this guarantee must be presented by the buyer directly to Ace Coatings, by written communication within a maximum period of 5 days from the detection of the defect, in no case beyond the expiration date of the product, or in any case, no later than 1 year from the date of delivery of the product to the buyer (the earlier option will be valid).

The buyer will not be able to make use of the guarantee if he does not notify Ace Coatings of the non-conformity as indicated above. Ace Coatings shall, in no event and under no circumstances (including negligence of any kind, strict liability or damages), be liable for any indirect, special, incidental or consequential damages related to, arising out of or resulting from any use of the product.

The information contained in this document is for guidance only and is based on laboratory tests that Ace Coatings believes to be reliable.

Ace Coatings may change the information contained in this document at any time as a result of its practical experience and continuous development of the product.

All recommendations or suggestions relating to the use of Ace Coatings products, whether issued in the form of technical documentation in response to a specific inquiry or otherwise are based on data which, to the best of Ace Coatings' knowledge, are reliable. The product and related information are designed for users with the necessary knowledge and qualifications required by the industry. It is the responsibility of the user to verify the suitability for the specific use and application in each case; the buyer is considered to have made the necessary verifications at his own risk; Ace Coatings has no control over the quality or condition of the substrate, or any factor affecting the use and application of the product. Accordingly, Ace Coatings accepts no liability for any loss, injury or damage resulting from the use of the product or this information (unless otherwise agreed in writing). Variations in application environment, changes in usage procedures or extrapolation of data, the results could be unsatisfactory. This document will prevail over any previous version; the purchaser should ensure that this information remains current before using the product and the English version of this document shall prevail over any translation.

NOTE: The information contained in this technical sheet may be modified based on possible formulation variations and in any case corresponds to the current state of our knowledge and is given in good faith, but without guarantees about the final results since these depend on the conditions of use, which are beyond our control. These data do not exempt from carrying out the appropriate tests of suitability of the product for a certain job. This technical sheet replaces any other with a previous date related to the same product.



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