

Technical Data Sheet

ACE POLYSEAL

DESCRIPTION

ACE POLYSEAL is a 100% solids pure aromatic polyurea two-component system created to fill joints in industrial concrete floors subjected to high loads, movements and/or solid wheels machinery transit.

It has an excellent resistance to abrasion and rupture as well as to chemical-substance attacks and environmental corrosion.

The product is also suitable to fill random cracks.

SCOPE

- High-transit industrial floors, floors in shopping centers, warehouses, etc.
- Horizontal joints.
- Control joints and random cracks in concrete, both in commercial floors and warehouses or industrial facilities.
- Applicable indoors and outdoors. Due to its aromatic nature, the material applied outdoors may discolor upon direct contact with sunlight or against intense UV.
- This product should only be used in joints where backlash and movement are expected to be less than 10% of the joint width.

COMPONENT TECHNICAL DATA AND PROPERTIES OF THE SYSTEM

PROPERTY	VALUE
Hardness ASTM 2240	Shore A= 78-80 Shore D=23-25
Tensile strength ASTM D412	16MPa
Elongation ASTM D 412	480%
Tear strength D53515	54,9 N/mm
Specific weight A	1,107gr/lit
Specific weight B	1,003gr/lit
System specific weight	1,05 gr/lit
Volume ratio	1:1
Gel time	70-75 s
Tack free	2.5-3 mins
Retouch time	25mins-2 h
Commissioning according to temperature	1-3 h
Processing temperature	65-70°C Comp B / 70°C Comp A
Substrate temperature	4°C-40°C

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PRESENTATION

50 Kg drums per component.

Colors: grey, beige or black. Other colors are available upon request.

Minimum order: 100 Kg

LIFESPAN: >1 year either in sealed drums or with nitrogen at temperatures 20-40 °C in dry environments.

THEORETICAL PERFORMANCE

1.05 Kg of the system fills approximately 1 cm³ of joint WITHOUT TAKING INTO ACCOUNT WORK LOSS.

Warning: In all applications it is necessary to consider a loss of material due to excess withdrawing and trigger tests. The smaller the joint the greater the shrinkage percentage.

TECHNICAL CHARACTERISTICS

- Excellent mechanical and abrasion resistance.
- High resistance to corrosion.
- Self-leveling.
- 100% solids system without VOC or CFC; environmentally friendly; little odor.
- High durability.
- High elongation, it maintains its flexibility even at low temperatures.
- Due to both its curing speed and put-to-use, it allows quick and efficient work.

JOINT PREPARATION

- The concrete support must be FIRM with a minimum tensile strength of 1.5 N/mm² and to compression of at least 25 N/mm². Regarding the concrete:

- New concrete: Cured with 28 days of setting, without laitance or poor concrete and with a pH between 9 and 12. It is recommended to install the joint filler after 90 days in order to minimize new shrinkage movements of the slab.
- Previously sealed old concrete: Without old sealing materials and with sound and decontaminated sides.

- The joint surfaces must be clean, free of grease, dirt, loose or bad adhered particles and any other contaminant that prevents adherence (wheel marks, rust, other products...). They must be dry (<5% humidity), without retained water and with minimal transmission steam. Where necessary, the joint will be opened with an electric cutter until the decontaminated surface is reached.

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- They must have an open pore to promote mechanical adherence. Otherwise, mechanical treatment must be carried out by shot blasting or diamond coating to open the pore and/or surface decontamination.
- The use of primer is recommended and it is essential when the joints are subject to continuous periods or prolonged immersion in water.
- Once the joint surfaces have been cleaned as described above, apply primer to the faces of the board. You can use PRIMERFLEX PLUS with an allowance of 0.200 lit/m² or PROADHESIVE with a provision of 0.100 lit/m². It is recommended to make an application of test to verify adherence in case it would be more appropriate to use primer EPOPRIMER-BV, water-based epoxy.
- Let the primer dry as indicated in the technical sheet before applying the joint sealant.

APPLICATION PROCEDURES

APP POLYSEAL in DRUMS requires a plural dosing equipment with a 1:1 mix ratio and a gun with static mixer.

1. Component B must be shaken for a good homogenization of the pigmented content and both components must be heated to the indicated processing temperature.
2. Once the products reach the recommended temperature and the joint is prepared, install the spray gun accessory.
3. Let some product flow into a container and directing the stream to the container wall verify that it heals in time and does not pick up. If this happens, check the processing temperatures.
4. Once the material test has been done, everything being correct, you can proceed with the filling of the joint. The joint must be filled in its entirety in a single pass, allowing the product to protrude slightly. In case of irregularities in leveling of the joint, it will be filled to the level of the height of the lowest slab. In vertical joints, it is recommended its filling from bottom to top.
5. After 25 minutes and to a maximum of 2 hours, depending on the environmental conditions, will proceed to cut the excess product from the joint with a sharp blade adjusted to a floor scraper. Keep in mind that when stopping the product in the mixer will react, so it is you will need to install a new mixer when you restart the application.

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