

UREA-based, cold processable waterproofing and surface protection system for manual application.

DESCRIPTION

UREAFLEX FL COATING is a cold-applied, two-component, handapplied, solvent free system. Based on isocyanates and special amines, it is particularly suitable for protecting and waterproofing substrates such as concrete, tiles etc. This coating is highly abrasion and UV resistant and combines outstanding features with user-friendly application. Easy to apply by hand (brush, scraper) or with a roller.

AREAS OF APPLICATION

- Protection of concrete surfaces.
- Car parkings.
- Pedestrian decks.
- Industrial flooring.
- Garage floors.
- Terraces and balconies.
- Sewage treatment plant.
- Effluent treat.
- Petrochemical / refineries.
- Port / harbour / airport.
- Water treatment plants.
- Hangars.
- Spillways.

APPLICATION PRESCRIPTIONS

Preparation of the surfaces

Surface preparation is essential for optimum finish and durability. The surface must be clean and free from dust, dirt, fats, oil or other contamination (previously applied coatings and / or loose paint). The moisture content should not exceed 5%. Possible surface irregularities (holes, cracks, tears) must be repaired and/or smoothened or treated with a self-levelling product. New concrete surfaces should dry for minimum 28 days. After cleaning the surface, prepare with UREAFLEX FL CLEAR PRIMER (see TDS UREAFLEX FL CLEAR PRIMER).

Preparation of the product

Stir component A well before using. Then add component B (make sure the canister of the B component is totally emptied). Mix at low speed, to avoid air inclusion, with a mechanical stirrer for about 2 to 3 minutes. Make sure both components A and B are mixed homogeneously. Scrape out the recipient's sides and bottom thoroughly. Component A and Component B are pre-dosed. Never add solvents.

• Application

Pour the mixture on the surface and spread evenly with a roller, a metal scraper or a brush until the desired layer thickness. For slip-free surfaces, manually spread enough dry quartz sand over the surface to be treated until there is a rough surface on which a second layer of coating firmly attaches. Allow to cure. UREAFLEX FL COATING cures faster at higher temperature and higher humidity. Remove excess sand particles with a vacuum cleaner. Apply a second layer of UREAFLEX FL COATING within 24 hours so that the sand grains are well embedded. Use dry quartz sand with a particle size of 0.60 mm to 1.2 mm or larger if required.

 For more information, consult the manual "Processing instructions Ureaflex systems".

PRODUCT FEATURES

UREAFLEX FL COATING is a coating with high mechanical properties that creates a strong and hard membrane. The coating can be applied at lower temperatures (min. -5 °C). In that case, the components temperature has to be \geq 15 °C before the start of application to retain self-levelling capabilities. Low temperatures (< 5°C) delay the curing and high temperatures accelerate the curing (> 30°C). Do not leave the mixed product in the mixing drum for more than 10 minutes, as the exothermic reaction accelerates the curing. On the surface, the mixture can be rolled out for up to 20 minutes, depending on ambient temperature. Thicker layers need more time to cure. High humidity will shorten the curing time. Light pedestrian traffic is possible after 24 hours, heavy traffic after 48 hours.

ADVANTAGES

- Seamless membrane.
- 100% UV stable, no yellowing.
- High gloss finish.
- High abrasion and scratch resistance.
- High stain and chemical resistance.
- No VOC.
- Flexible with a high impact resistance.
- Strong bond to different substrates.

TECHNICAL DATA

UREAFLEX FL COATING	Value		Unit	Standard
COATING	Α	B (iso)		
Specific weight	1.71	1.11	kg/m³	ASTM D 0891
Mixing ratio A / B	100 / 54		kg	
Solids	100		%	
Work time	20		min	ASTM D 638
Tack free time	50		min	
Adhesion on concrete	>3 (concrete failure)		N/mm ²	Elcometer

PHYSICAL PROPERTIES

UREAFLEX FL COATING	Test norm	Conditions	Result, Value	Spec or class according NBN EN 1504-2
Abrasion	NBN EN	H22/1000	< 1000	
resistance	ISO 5470-	cycles/load	mg mass	
	1	of 1000g	loss	
Tear	ISO 34-1	At 23°C 50%	30.5	
Strength		RHUM	kN/m ± 6	
Tensile	NBN EN	At 23°C 50%	23 MPa ±	
Strength	12311-2	RHUM	1.3	
Pull off	ASTM D	At 23°C 50%	7.5 MPa	
Strength	4541	RHUM	± 0.5	
Adhesive	NBN EN	At 23°C 50%	3.7	
Strength	1542	RHUM Dry	N/mm ±	
		concrete	0.3	

All information is given in good faith and without any warranty. The application, use and processing of these products are beyond our control and therefore entirely your responsibility. Established liability if any, through bad application or any other reason, for any damages, is always limited to the value of the goods supplied by ADCOS nv. The products and systems are manufactured under total quality management (29/04/2019)



ISO 868

NBN EN

ISO 6272-

NBN EN

1062-7

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Hardness

(Shore D)

resistance

Impact

Crack

bridging

property

PΔ	СК	۵G	ING
1 7	CIV		III

1 set: A component 5 kg and B component 2.75 kg

STORAGE

The product must be stored in a cool and dry place, away from direct sunlight and at a temperature between 5°C and 35°C. Shelf life of 12 months.

coating system for the professional user. In n the product quality, the user is obliged to he technical support team of ADCOS NV can ns or method statements.

RECAUTIONS

othing and eye/face protection. ilation wear respiratory protection. y with water for several minutes. Remove ind easy to do. Continue rinsing. mmediately all contaminated clothing. Rinse

For more information, consult the safety data sheet.

		Crack opening at - 10°C			APPLICATOR'S LOG
Water permeability	NBN EN 1062-3	At 23°C, water transmission factor = w		Meets criteria	UREAFLEX FL COATING is order to make any claim complete the user's log.
Water vapour permeability	NBN EN 7783	At 23°C 50% RHUM Sd = equivalent		Class II	assist with specific question
		layer thickness			Wear protective gloves/clot In case of inadequate ventil If in eyes: Rinse cautiously contact lenses, if present ar
CONSUMPTIO		. For heavy traf	fic we recon	nmend 2 mm	If on skin or hair: Take off in skin with water/shower.

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Class I

Class A3

Class A2

1kg weight

from

drop

0.5m

Crack

23°C

opening at

1,5 kg/m² per mm thickness. For heavy traffic we recommend 2 mm thickness. Standard available in grey colour (RAL 7042). Other RAL colours (6005, 7035, 7043 and 9003) made to order, with a minimum order of 115 sets or 891,25 kg system.