



LANDECOLOR, S. A.

FABRICA : Polígono Industrial n.º 1

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2-COMPONENT SOLVENT-FREE SELF-LEVELLING FLOOR COATING

Solvent-free coating for concrete floors.

PRODUCT DATA

- *Specific gravity:* 1.530-1.630 g/cm³ @ 20°C
- *Viscosity:* 145 + 5 KU at 20°C
- *Finish:* Gloss
- *Flash point:* Up 165°C

Elastic modulus determined in the traction test.	DIN 53 455	N/mm ²
Breaking stress	DIN 53 455	N/mm ²
Elongation to break	DIN 53 455	%
Shore D hardness	DIN 53 505	
Graves progressive tear resistance	DIN 53 515	KN/m

COVERAGE

0.5-1 m²/kg, depending on surface conditions.

SUPPLY AND MIXING RATIO

This is a two-component product presented in two separate containers (base and catalyst).

- *Mixing ratio:*
 - Base:* 20 parts in weight.
 - Catalyst:* 4.4 parts in weight.
- *Mix life:* 30-40 minutes (20°C).
- *Supplied in:* 20 kg. metal containers.

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2-COMPONENT SOLVENT-FREE SELF-LEVELLING FLOOR COATING

ELECTRICAL AND PHYSICAL PROPERTIES

	Unit of measure	Test standard	Test tube				
Dielectric rigidity E_d (50 Hz)	KV/mm						
1) dry	DIN VDE 0303/	1	23.0	27.0	25.0		
2) 4 days at 80% of relative humidity	Part 2	2	21.0	24.0	25.0		
3) 24 hours of water immersion	95 mm ϕ , 1 mm	3	21.0	23.0	22.0		
Superficial resistance R_{OA}	Ohm						
1) dry	DIN VDE 0303/	1	$2 \cdot 10^{13}$	$3 \cdot 10^{14}$	$4 \cdot 10^{14}$		
2) 4 days at 80% of relative humidity	Part 3	2	$1 \cdot 10^{12}$	$4 \cdot 10^{13}$	$3 \cdot 10^{13}$		
3) 24 hours of water immersion	Standard rod	3	$8 \cdot 10^{12}$	$2 \cdot 10^{14}$	$2 \cdot 10^{14}$		
Electrode R_s resistance	Ohm						
1000V-, value of 1 min.							
1) dry	DIN VDE 0303/	1	$3 \cdot 10^{13}$	$6 \cdot 10^{14}$	$7 \cdot 10^{14}$		
2) 4 days at 80% of relative humidity	Part 3	2	$8 \cdot 10^{11}$	$3 \cdot 10^{12}$	$2 \cdot 10^{14}$		
3) 24 hours of water immersion	Standard rod	3	$2 \cdot 10^{14}$	$2 \cdot 10^{15}$	$1 \cdot 10^{15}$		
Specific resistance to electric current S_d	Ohm · cm						
1000V-, value of 1 min.							
1) dry	DIN VDE 0303/	1	$3 \cdot 10^{14}$	$3 \cdot 10^{14}$	$5 \cdot 10^{14}$		
2) 4 days at 80% of relative humidity	Part 4	2	$6 \cdot 10^{13}$	$3 \cdot 10^{14}$	$9 \cdot 10^{14}$		
3) 24 hours of water immersion	95 mm ϕ , 1 mm	3	$7 \cdot 10^{13}$	$5 \cdot 10^{14}$			
Dielectric constant E_n , dry							
1) at 50 Hz	DIN VDE 0303/	1	4.8	3.6	3.5		
2) at 800 Hz	Part 4	2	4.0	3.4	3.4		
3) at 1 Mhz	95 and 50 mm ϕ ,	3	3.5	3.3	3.3		
4) at 3 Ghz	1 mm	4	2.9	2.9	2.9		
Dielectric loss factor							
Tg δ , dry	DIN VDE 0303/						
1) at 50 Hz	Part 4	1	0.127	0.049	0.027		
2) at 800 Hz	95 and 50 mm ϕ .	2	0.083	0.023	0.014		
3) at 1 Mhz	1 mm	3	0.023	0.013	0.011		
at 3 Ghz		4	0.012	0.010	0.007		
Experimental value of the formation of a leakage path of parasitic currents	Graduation						
B test solution	DIN VDE 0303/						
	Part 1		PTI 600	PTI 600	PTI 600		
	20X15X4 mm						
Water vapour permeability	$\frac{g \cdot cm}{cm^2 \cdot h \cdot mbar}$		$4 \cdot 10^{-8}$	$2 \cdot 10^{-8}$	$6 \cdot 10^{-8}$		
Thermal conductivity	DIN 52 612/						
	Part 1, Watt/m · K		0.226	0.249	0.244		



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STABILITY AGAINST CHEMICALS AND SOLVENTS

	Alteration started on	Type of alteration	End of test after:	Status
Distilled water	—	—	6 months	In order
Sea water at 10%	—	—	6 months	In order
Sulphuric acid at 50%	—	—	6 months	In order
Hydrochloric acid at 10%	—	—	6 months	In order
Hydrochloric acid at 36%	1 day	Change of colour	2 days	Destroyed film
Nitric acid at 10%	50 days	Film bleaching	6 months	Bleached film
Nitric acid at 50%	1 day	Change of colour	2 days	Destroyed film
Acetic acid at 10%	—	—	45 days	Swelling
Acetic acid at 50%	—	—	30 days	Serious swelling
Acetic acid at 100%	1 day	—	2 days	Destroyed film
Formic acid at 10%	—	—	6 months	In order
Phosphoric acid at 50%	—	—	6 months	In order
Lactic acid at 80%	—	—	6 months	In order
Fatty acid: linseed oil	—	—	6 months	Little bubbles
Potassium hydroxide at 10%	—	—	6 months	In order
Potassium hydroxide at 50%	45 days	—	4 months	Swelling, soft
Ammonia at 25%	2 days	Bubbles	3 days	Destroyed film
Ammonia at 10%	—	—	8 days	Destroyed film
Ammonia at 5%	7 days	Swelling	25 days	Destroyed film
Chlorine bleach at 3% Free Chl.	—	—	6 months	Fragile film
Hydrogen peroxide at 30%	—	—	6 months	Corrosion of bottom
Sodium chloride at 10%	—	—	6 months	In order
Oil	—	—	6 months	In order
Two-star petrol	—	—	6 months	Soft film
Four-star petrol	4 days	Swelling	25 days	Destroyed film
Fuel oil	—	—	6 months	In order
Xylene	—	—	6 months	In order
Benzene	2 days	Swelling	6 months	Protection exists
Formaldehyde at 30%	—	—	6 months	In order
Ethyl alcohol at 96%	—	—	6 months	In order
Acetone	1 day	slightly dissolved	4 months	Destroyed film
Methylene chloride	10 minutes	slightly dissolved	1 day	Destroyed film
Skydrol	15 days	Swelling	20 days	Destroyed film
Methanol	7 days	Swelling	10 days	Destroyed film
Trichloroethylene	1 day	Swelling	1 day	Destroyed film
Isopropanol	—	—	6 months	In order
Ethyl acetate	7 days	Swelling	9 months	Destroyed film



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USES

Extraordinarily recommended to cover **concrete floors**, particularly in the **industrial sector** (boat decks, tanks, pipes, industrial surfaces, etc.), including **food industries**, and also **offices, labs, nuclear energy facilities, hospitals**, etc., where a good stability to organic acids and abrasion, and easy cleaning are required.

High resistance to abrasion, good adherence, high level of elasticity, and good stability to chemicals and solvents. **Not** conductive.

Coatings of 2 to 4 mm are obtained by adding quartz sand, in which case the elasticity degree still remains excellent.

COLOURS

Grey, green and red. Especial colours to be determinate.

SURFACES

The surfaces to be coated must be clean, consistent, and totally free of grease.

Integral part of the preparatory coating works for porous surfaces, such as concrete or cement floors. It is a primer or base coat. Besides consolidating the substrate, it prevents the formation of bubbles, "blisters", and "craters" in the coating, resulting from the air rising from the pores and cavities of the substrate.



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2-COMPONENT SOLVENT-FREE SELF-LEVELLING FLOOR COATING

INSTRUCTIONS FOR USE

Using a mortar stirring rod mounted on a drilling machine, intimately mix these two components, pour them in a neutral container, and mix again thoroughly. Watch that the drilling machine rotates at low speed and switch it on once the stirring mechanism has been introduced in the mixture so that air is not incorporated to it.

Apply the coating mixture using a **metal strip or scraper**.

STORAGE

Up to 24 months in original unopened container.

Please keep away from freezing temperatures and direct exposure to sunlight.



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Issued on 30 Jun. 11. This DATA SHEET supersedes all previous