

7F-140 C-FLOOR® SEALER E140

Epoxy varnish sealer for concrete floors

Revision: April 2016

DESCRIPTION

C-Floor Sealer E140 is a varnish epoxy sealer for floors. Its main properties are:

- To stabilize and strengthen uneven surfaces.
- Excellent penetrative capability.
- Binder for mortars.
- Fireproof.
- CE Marking product.

MAIN APPLICATIONS

As a binder and sealer for new and old concrete surfaces prior to the application of self-levelling mortars for floors, float applied mortars and colored silica systems. It can also be used as a primer for levelling and filling and coving screeds.

PROPERTIES

Finish	Gloss		
Colour	Colourless		
Components	2 <i>Actual formulation:</i> 7F141.0000 + 7F142.9999 <i>New formulation:</i> 7F141.0001 + 7F142.9990		
Mixing ratio (by weight)		<i>Actual formulation</i>	<i>New formulation</i>
	Resin 7F-141	4 parts	2,5 parts
	Cure 7F-142	1 part	1 part
Pot life of the mixture	<i>Actual formulation:</i> 30 - 45 minutes at 20°C <i>New formulation:</i> 20 - 30 minutes at 20°C		
	Since the pot-life is limited and shortened by high temperatures, do not mix more material than will be used in pot-life period. Otherwise, it must be careful to place the reaction product outdoors or in well ventilated areas.		
Volume solids	100% aprox.		
Recommended dry film thickness	300 – 500 µm depending on the surface absorption when applied as primer / sealer		
Specific gravity	<i>Actual formulation:</i> 1,06 g/mL <i>New formulation:</i> 1,08 g/mL		
Theoretical coverage	See recommended paint systems Allow for application losses, surface irregularities, etc.		

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Drying time

At 20°C and 250 µm:

To touch: 3 hours

Total dry: 24 hours

Recoating: Min: 8 hours – Max: 24 hours

Drying times depend on air temperature, surface temperature and ventilation. If you apply a self-leveling mortar finish, it will necessary to guaranty no porosity on the base. If case of exceeding the maximum recoating time, it will be necessary to make a mechanical abrasion of the surface to guarantee a good adhesion between layers.

SURFACE PREPARATION

Concrete must be left for at least 28 days so as to be fully cured. Remove the laitance, old paint and any other contaminants by grit blasting. The floor humidity must not exceed 4% (measured in depth with an equipment like "Tramex"). The minimum tensile strength must be greater than 1,5 N/mm² (15,3 kg/cm²).

Apply over clean dry surfaces with sufficient rugosity, achieved by grit blasting or other mechanical abrasion tools.

APPLICATION AND PAINT SYSTEMS

Add the hardener to the resin and stir for 5 minutes. In enclosed areas there must be good ventilation during application and drying until the solvents have evaporated.

Ambient application conditions:

Temperature 10 - 45°C

Relative humidity 0 - 85%

Minimum surface temperature 3°C above dew point

Support humidity less than 4% in depth (with "Tramex" equipment or similar)

Application methods: Trowel, spatula, brush and roller

To be effective in sealing porosity, it is recommended to apply by trowel

Cleaner: 7S-902.000 (CP-40) ; 52-510.0000 (Dil. Industrial)

Number of coats: It depends on the application method and support porosity and regularity

As Primer / Sealer:

Apply by roller, brush, trowel or spatula to achieve a spread rate of 0,35 – 0,60 kg/m². Depending on absorption of substrate and its porosity, it may be necessary to apply supplementary coats to completely seal the substrate. On irregular substrates, it is recommended to apply previously a thin mortar by trowel.

As a fine mortar (applied by trowel or spatula):

Mix 1 part by weight of C-Floor Sealer E140 with 0,5 - 0,6 part of a mix of Quartz G300 and Quartz Powder G50 (1/1) ^{al}. The sealer and silica weight relation depends on the roughness of surface. The applicator should decide which will be the most appropriate proportions to ensure a complete sealing of the support. It may be necessary to apply an additional coat of C-Floor Sealer E140. Consumption: 1 kg/m²/mm approx. (depends on surface irregularities and trowel type)

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To repair joints and cracks:

Mix 1 part of C-Floor Sealer E140 (mixed product) with 6 – 9 parts of Quartz G800+Quartz G450+Quartz G300^{a)} and applied by trowel. To repair small cracks it is recommended to apply C-Floor Sealer E140 with woven fibre glass “Fast Tela – Tela Pavimentos”.
Coverage: 2,5 – 3 kg / m² / mm

Covering screeds:
Sealer

First apply one coat of C-Floor Sealer E140.

Coverage: 0,2 – 0,3 g/m²

Mortar

After applying the sealer, prepare the C-Floor Sealer E140 with 2% by weight of C-Floor Thickener Additive^{b)}. Prepare a mortar from this mixture with Quartz G300 in the proportion between 1/7 and 1/8 by weight of coating / silica and apply the filler with a suitable trowel.

Coverage of coating: 0,23 – 0,25 kg/m²/mm

Coverage of the silica: 2,1 – 2,2 kg/m²/mm

Finishes:

Solvent free epoxy paints and varnishes such as C-Floor E400 SL, C-Floor Varnish E420 QS as a coating or mortar topcoat. Before applying those products, please see the technical data sheets.

ADDITIONAL INFORMATION **Drying mechanism** – By chemical reaction between components

Volatile Organic Compounds (VOC)

UE limit for the product (cat. A/j): 500 g/L

Maximum VOC content 59 g/L *

* The VOC value shown above refers to a ready to use product, as tinted, thinned, etc, in accordance with our recommendations. We are not responsible for products obtained by mixing products with are different from those we have recommended and we must draw attention to the responsibility of anyone involved within the supply chain not to infringe Directive 2004/12/CE.

Flashpoint (Closed container)

Resin	higher than 96°C
Hardener	higher than 100°C
Cleaner	4°C (7S-902.0001) lower than 5°C (52-510.0000)

Supply form

	Actual formulation	New formulation
Resin	8 kg	7,5 kg
Hardener	2 kg	3,0 kg

Shelf life

3 years, when stored in original containers, indoors, between 5 and 40°C.

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OBSERVATIONS

- a) To produce a homogeneous mixture of the 3 components, use a flameproof electric or compressed air mixer. Firstly homogenize the resin and cure, then add the silica and continue stirring for around 5 minutes to obtain a homogeneous product. Finally, clean the equipment using the cleaning solvent.
- b) Due to its low density, thickener must be added under a low speed mechanical stirrer.

HOMOLOGATIONS AND CERTIFICATES

 Fire reaction classification according to European Norm EN 13501-1 B_{fl}-s1 (fire reaction with low smoke emission).

CE MARKING

CE Marking of this product is the evidence given by CIN that this product is subject to the provisions of Community Directives of the Construction Products that are applicable with European Regulation n° 305/2011 on March, 9 of 2011 and the European Standard EN 13813. "Screed material and floor sounds – Sound material - Properties and requirements". This product conforms to the requirements of Annex ZA of that that standard.

	
CIN – Corporação Industrial do Norte, S.A. Avenida de Dom Mendo 831 – Apartado 1008 4471 – 909 Maia – Portugal	
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EN 13813	
Continuous floor coating Declaration of performance: CE-7F140	
Classification Traction adherence Fire reaction	SR – B _{fl} -s1 – B1,5 > 1,5 N/mm ² B _{fl} -s1

HEALTH, SAFETY AND THE ENVIRONMENT

Protect the eyes and skin from contact; gloves, goggles and appropriate clothing should be worn. Keep out of the reach of children. Use only in well ventilated areas. Do not empty into drains. Keep the container properly sealed and stored in the correct place. Take correct measures when transporting the product so as to avoid any accidents that could rupture the can or cause damage to the packaging. Ensure that the container is correctly stacked in a safe area. Do not store or use the product in extreme temperature conditions. Always take account of the appropriate legislation relating to the environment and Health and Safety at Work. For more information it is essential to read the label on the container and the Material Safety Data Sheet of this product, its components and all complementary products referred on Technical Data Sheet.

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