

837 ROBOTON 3K EP SELF-LEVELLING SF

A three-component, solvent-free, self-levelling epoxy compound for concrete and steel surfaces for industrial purposes. Seamless floor compound for new and existing concrete and steel floors, balconies, bridges, garages and stairways. To achieve a sustainable result, a great deal of care must be given to pre-treatment off the substrate, preferably by blasting and impregnation.

PROPERTIES

- must be handled professionally;
- floor technology with high abrasion;
- high mechanical impact resistance;
- resistant to diluted acids, corrosive substances, oils, grease, water, various chemicals, solvents and soluble salts;
- high scratch and abrasion resistance;
- resistant to heavy loads and freight traffic;
- to be used in case of crack formation.

WORK PROCESS

Mixing ratio:	837 Roboton 3K EP Self-levelling SF basic component 7.5 parts by volume. Activator 996, 5 parts by volume Sand 837Z, 7.5 parts by volume
Mixing instructions:	While stirring, add Activator to the basic component and carefully mix with a mechanical mixer. Pour the mixture into an empty can and mix again. Then add 8377 sand component to the mixed product and stir well again with the mechanical mixer. The temperature of the mixed product should be at least 10°C.
Thinner:	The product can be applied undiluted with a squeegee or trowel. In order to remove trapped air from the applied layer, it must be treated with a venting roller (puncture roller) immediately after application.
Shelf life:	12 months in the original, well-sealed packaging, if stored indoors at a temperature between 5°C and 40°C.
Application conditions:	The moisture content of the concrete may not exceed 4%. To reduce the Quantity of solvent vapours, make sure the area where the work is conducted is well ventilated. This is necessary to ensure adequate conditions for the drying process and important for the general health of workers.

PERFORMANCE AND PROPERTIES

Aesthetic product properties:

Gloss:	Semi-gloss
Colour:	Standard colours (e.g. RAL, NCS)

Product properties:

Solid substance volume:	100% volume (mixed product)
VOC:	0 gr/l
Density	Approx. 1.85 kg/l at 20°C (mixed product)
Consumption per m ² :	Approx. 2 l/ m ²
Theoretical efficiency:	0.5 m ² /l at a dry layer thickness of 2000 µm.
Practical efficiency per Quantity:	Performance in practice depends on various factors, such as porosity and roughness of the substrate and material loss during application.
Pot life:	45 minutes at 20°C (mixed product) Please note: the temperature may increase to 70-80°C
Dry times determined at 20°C and 60% RH.	
Can be walked on after:	Approx. 16 hours
Recoatable:	after at least 16 hours
Fully cured:	after 7 days

PROCESSING DATA

	Trowel-wiper
Thinner	n/a
Packaging	10 en 20 l

Cleaning of tools: immediately after application using thinner EP5800.

PROCESSING INSTRUCTIONS

Surface quality

The surface must be healthy and sufficiently pressure-resistant (at least 25 N / mm²), with a minimum bond strength of 1.5N / mm²). The surface must be clean, dry and free of dirt, oil, grease, coating and other contaminants. Concrete surfaces must be mechanically pre-treated by means of dust-free blasting or chipping equipment. The purpose of this is to remove cement skin and to ensure a roughened, strong and clean surface. Weak concrete must be removed and surface damage, such as holes and voids, must be clean. Before the product is applied, all dust and loose elements must be fully removed from all surfaces using an industrial vacuum cleaner.

Pre-treatment

Pre-treatment of a floor to achieve a good finish can be done either physically, chemically or mechanically. Depending on dirt, the 'stability' and nature of the surface, one or a combination of these methods will have to be used.

Physical cleaning is done with solvents / strippers. This to remove paint and glue residues, for example. Chemical pre-treatment refers to the removal of all types of pollution with either neutral, acidic or alkaline cleaning agents, or a combination of these. It also refers to the etching (with acid) of the surface. Due to enlargement of the pore volume on the surface, this ensures improved adhesion. Mechanical pre-treatment refers to the sanding, milling or roughening of the surface, whereby the contaminated or weak top layer of the surface is removed. Available are methods such as sanding, blasting with water under extremely high pressure, blasting with (dry) grit or (wet) sand.

Processing

Ensure that an even, pore-free layer covers the surface. If necessary, apply two layers. No rising moisture according to ASTM (polyethylene film 30x30 cm), <4% moisture (parts by weight). If no condensation has formed after 48 hours, the floor is sufficiently dry. Ensure that the coating is not stored cold. The second layer can be applied after 24 hours. Do this within 7 days. Otherwise, first sand well before applying the second layer.

A finishing without lap marks is achieved if a 'wet-on-wet' connection is realised during processing.

For a good result, it is recommended to work quickly and accurately with multiple skilled people.

ENVIRONMENT AND HEALTH

Labelling: In accordance with EC directive 67/548/EEC and the directives on hazardous substances. Harmful and irritating upon contact with the skin, eyes and if inhaled. In the event of contact with the eyes, immediately rinse with large quantities of water and seek medical advice. Do not eat, drink or smoke during use.

UN: 1263

Aware code: 43-IV

AWARE

'AWARE' stands for 'Adequate Warning and Air REquirement'. The AWARE code is a 2-digit code for coatings, cleaning and thinning products. This code helps companies more easily select products that create the least risk for those actively working with these products. The lower the code numbers, the safer the product. Two digits. The first digit shows how much ventilation is needed to work safely.

This is calculated based on quantities found in the product, their MAC values and volatility. The higher the ventilation requirement, the greater the risk associated with the product. The second digit indicates which hazardous properties can be found in the product's substances. The most hazardous substances have the highest number (Roman numerals from I to V). Foreign examples. The AWARE methodology has been developed based on foreign systems, such as the Danish MAL and Norwegian OAR codes.

RESTRICTIONS

Do not apply to surfaces with rising damp. When applying outdoors, always apply during falling temperatures. When applied during rising temperatures, 'pinholes' may develop as a result of expansion of trapped air. Incorrect assessment and treatment of cracks may lead to a shorter service life and recurring cracks. Lower temperatures and high humidity increase the chance of white discolouration or carbamate formation (sticky surface).



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PROTECTIVE COATINGS

Our protective coatings stand out because of their durability, flexibility, adhesion, ease of application, corrosion resistance and chemical and mechanical resistance. This is the result of our craftsmanship in the area of coating chemistry, all with a great eye for the needs and wishes of our customers. The coating systems are in accordance with ISO 12944 and comply with all international VOC guidelines.

PAINT SYSTEMS

Below you can find a paint system based on 837 Roboton 3K EP Self-levelling SF. For custom advice on paint systems, please contact Baril Coatings or our local representative.

System 1	New concrete surface
	1st layer; 834 Roboton EP Sealer SF
	Top layer; 837 Roboton 3K EP Self-levelling SF*

*When overcoating, first thoroughly degrease the applied top layer with enviclean after the first night.

TECHNICAL SUPPORT

Besides advice, Baril Coatings offers additional services. We offer total solutions to clients, architects, contractors and applicators.

To ensure desired durability, Baril Coatings offers intensive guidance and monitoring of work carried out during the application process, all in accordance with ISO 12944.

However, such guidance and monitoring does not relieve the applicator from his responsibility for the work carried out. The applicator must duly inform himself of the latest product data sheets and general conditions for steel preservation prepared by Baril Coatings.

Baril Coatings is not liable for application (conditions). Ultimate durability is largely determined by factors outside our sphere of influence and therefore falls outside the responsibility of Baril Coatings.

WARRANTY & DISCLAIMER

This Technical Data Sheet nullifies all previous provisions. The data, specifications, instructions and recommendations in this technical data sheet are merely an indication of test results and experiences obtained or gained under controlled or specially created environments. There is no guarantee that these data are correct, complete and applicable under the desired circumstances of application. It is up to the buyer and/or user to determine this. All product deliveries and technical support provided are subject to the UNIFORM CONDITIONS FOR PAINT AND PRINTING INK E.A., unless expressly agreed otherwise in writing. Except as provided in the aforementioned GENERAL TERMS AND CONDITIONS, the manufacturer and seller do not accept any liability, and the buyer and/or user waives the imposition of requirements with respect to any form of liability, including but not limited to negligence, for the obtained results, injuries, direct damage or consequential damages or losses resulting from use of the product as described above, on the back or otherwise. Technical data sheets are subject to change without notice.

