Technical Data Sheet

Product description	Pigmented, two-component, solvent free, epoxy, low-viscosity resin. Ideal as a sealing coating for smooth systems and systems sprinkled with aggregate.
Use	• As a low build varnish and primer for smooth and sprinkled systems, • Material for internal use as a finishing coating.
Properties	• Very high adhesion, • High degree of gloss, • **Extraordinary efficiency 0.15~0.2 kg/m²**, • Good mechanical parameters (hardness, tensile strength, bending strength), • High chemical resistance, • Good resistance to abrasion, • Ensures hydrophobic properties, • Low viscosity, • Easy application, • Frost resistance, • Reduced tendency to crystallize.

Physical properties of Siconofloor RR100-E		
Form	Component A modified colorful epoxy liquid	
	Component B amine curing agent	
Density (according to PN EN ISO 1675)	Component A	1.05~1.2 g/cm^3
	Component B	0.99~1.15 g/cm^3
Suitability for use	30 minutes at 20°C	
Theoretical consumption of the blend	0,15~0,2 kg/m^2 when used as a varnish	
Color and odor	Component A colorful and odorless	
	Component B transparent, with a characteristic odor	
Hygiene tests	Meets the requirements; Hygienic Certificate No. HK/B/0757/01/2015	
Curing time	Light load 24h at 25°C	
	Full load	7 days
Viscosity (Brookfield DV-II). The test was conducted at 18.4°C using 04 spindle and 20 RPM rotational speed.	Component A	2740 mPa*s
	Component B	700~732mPa*s

Mechanical properties of Siconofloor RR 100-E	
Dust dryness	12 hours at 20°C
ShA hardness (after 7 days)	100°
ShD hardness (ShD hardness after 7 days, 80 ShD)	80°

Application	
Substrate preparation	The substrate must have sufficient compressive strength (minimum 25 N/mm²). The surface must be flat, slightly rough, dark and dry, cleaned of all contaminants. “Pull off” test should not give a result below 1.5 N/mm². If in doubt, make a reference area. Parts of the substrate with insufficient strength, cement slurry and fragments contaminated with oils or other anti-adhesive materials, must be removed mechanically, e.g., by means of grinding or milling. Before the material application, the substrate must have open pores. Immediately before the material application, the substrate must be dusted and vacuumed.
Priming conditions	Substrate temperature should be +5~30°C. Please note, that the lower the temperature, the longer the process of SICONOFLOOR RR100-E curing. Ambient temperature should be +5~30°C. Substrate moisture content should be a maximum of 5%. Relative humidity of the air should be a maximum of 80%. Temperature of the substrate and uncured flooring must be at least 3°C above the dew point. The freshly applied SICONFLOOR RR100-E must be protected from moisture and direct water impact for at least 24 hours after the end of the application. The formation of milky spots on the surface indicates contact of the fresh material with moisture resulting in a discrepancy between the of properties of the final product and the properties declared by SICON POLSKA. In the case of the need for artificial heating, do not use gas, oil, paraffin nor other fossil fuels heaters. During their operation, those devices emit large amounts of water and carbon dioxide in the form of water vapor, which significantly interfere with the curing of the resin. Use only electric heaters for heating.
Application methods	First mix A component, then add B component, mix the components until a uniform consistency, but not for less than 3 minutes. Stirring ratios of Component A and Component B are indicated on the packaging and they must not be changed. Changing the proportions results in a product with characteristics different from the ones declared by the manufacturer. Over mixing can cause air entrainment and therefore it should be avoided. Use low speed electric stirrer for the resin mixing (300 ÷ 400 rpm) or another suitable equipment.
Priming coating	Apply SICONOFLOOR RR100-E using a roller or trowel depending on the substrate structure, ensure that a uniform and continuous coating is obtained.
Smooth systems sealing coating	Apply SICONOFLOOR RR100-E using a synthetic fiber roller with fine bristles according to the art of painting; ensure that a uniform and continuous coating is obtained.

Sprinkled systems sealing coating	Apply SICONOFLOOR RR100-E using a roller or trowel depending on the target structure, ensure that a uniform and continuous coating is obtained. Apply a second coat if necessary. Wash tools with acetone or xylene immediately after use. Hardened or cured material can only be removed mechanically.
Conditions of the system components storage	SICONOFLOOR RR100-E resin is a material with a reduced tendency to crystallization process. Store it in a dry place at +5~30°C. Components A an B in a liquid state are the agents causing water pollution and should not get into drains, soil and watercourses. After curing the resin is environmentally neutral.
Comments and recommendations	
Health and safety conditions	Use protective clothing, gloves and goggles when working with resins. Adequate ventilation must be ensured when working in cramped or confined spaces and when drying. Do not weld nor approach naked flame sources, when working. Use the illumination lamps with appropriate protections. Detailed information concerning health, safety, and ecological data, material toxicological properties data, etc., are available in the Material Safety Data Sheet of SICONOFLOOR RR100-E. Do not allow contact with the skin. Avoid inhaling vapors of the heated material. Avoid contact of the individual components with acids, strong oxidizing agents, alkalis. All employees should be thoroughly trained in the handling of epoxy resins and curing agents, in terms of the existing threats. Do not assign work with resins to allergy sufferers. Use protective gloves and goggles in case of the resin splashes risk. After each resin contact with the skin, wash your hands with water and a mild detergent, do not use benzene, toluene or carbon tetrachloride! For hygiene reasons, do not eat, drink, not smoke in the workplace.
Final remarks	The included technical specifications are based on laboratory tests. Actual measurements results may vary from the enclosed ones, due to circumstances beyond the control of Sicon LTD. All information is provided in good faith, taking into account the current state of the art and the experience gained. The manufacturer advises that the color of the executed flooring may vary. The resulting phenomenon does not indicate any defect or reduced technical parameters of the flooring. Any discoloration may occur due to the working or drying methods. It is recommended to execute certain surfaces with materials originating from one production run only. The product documentation provides for a general information applicable under certain conditions. It is recommended that before using the product on a large scale, the purchaser tests it under specific construction environment conditions. The supplier has no control over the use, methods of application and execution conditions occurring at the construction site, and therefore no responsibility of the supplier for the final effect of the application may arise from these instructions. Recommendations of Sicon partners that differ from the information included in the Safety Data Sheet shall apply only in the case of their written confirmation. Date of issue: 01/2016 All previously issued Siconofloor RR100-E safety data sheets shall expire on the date of issue of this sheet.