

BETOLIT EP 0-1 DC flex



Low viscosity flexible epoxy sealing composition

1. Product characteristics

BETOLIT EP 0-1 DC flex is a specially formulated low-viscous resin used primarily for flexible filling of floor joints in chemical works and industrial works with higher demands on the durability of the floor system. Meets the requirements of EN 13813.

- supplied in a specified ratio of each component; no measuring in-situ required
- after hardening shows perfect mechanical properties
- permanently flexible
- low viscosity
- after hardening is permanently resistant to effects of aggressive acidic and alkaline medias, oils, oil products, etc.

2. Use

BETOLIT EP 0-1 DC flex is permanently flexible epoxy composition on the basis of specially formulated epoxy resin, used primarily for filling of contraction joints in wear layers of industrial floors. Composition can also be used for filling and sealing of cracks and dry work joints. It can be also used for low pressure injection. Hardened composition is resistant to many aggressive media and therefore can be used for protection and sealing of floor layers and reinforced concrete structures in chemical works and other industrial works.

3. Physical and mechanical parameters

Requirements / results according to EN 13813

Properties	Declared value or class
Reaction to fire	class F
Abrasion resistance according to BCA (mm)	NPD
Adhesion (MPa)	class B2.0 (> 2.0)
Impact resistance (Nm)	NPD
Compressive strength (MPa)	NPD
Tensile bending strength (MPa)	class F20 (> 20)

Physical and mechanical parameters

non-hardened composition	
Color of composition	clear
Density (kg/m ³)	1 135 ± 25
Viscosity under 25 °C (mPa.s)	980 ± 100
hardened composition	
Modulus of elasticity (GPa)	0.18 ± 0.04
Elongation (%)	25

4. Test certificates

Meets the requirements of EN 13813.

The product is certified according to Act No. 22/1997 Coll. and Regulation (EU) No 305/2011 of the European Parliament and of the Council (CPR). Continuous independent production quality control is provided by AZL 1687 LABBET®. Supervision of quality management, environmental and OSH systems is performed by Certification Body No. 3029.

5. Instruction for preparation and application

Base. Any incoherent, loose or weatherworn particles shall be removed from the base. The surface cannot be contaminated by substances negatively effecting adhesion of the coating to the base (fats, greases, oils, etc.). Tensile strength of surface layers of the base shall be at least 1.5 MPa. Corroded reinforcement and visibly damaged concrete shall be properly repaired. When the composition is applied the new concrete shall be 28 days old at least and moisture of the base should not exceed 4%.

The composition is prepared by proper mixing of components A and B in specified ratio. The mixing ratio is the following:



BETOLIT EP 0-1 DC flex	component A (weight parts)	component B (weight parts)
	1.5	1

Components A and B shall be well mixed in a vessel of sufficient size by an electric driven slow speed propeller agitator.

Workability. Workability of the prepared composition is at least 10 minutes under 20°C and approximately 1000 g of resin.

Neither temperature of the base nor temperature of the ambient air shall be below + 10 °C and above + 30 °C.

Application of polymer composition. Composition is usually poured into contraction joints or is used in low pressure injection.

Tools can be cleaned by the agent **BETOFIL R**.

6. Specific consumption

Spreading capacity (specific consumption) of the **BETOLIT EP 0-1 DC flex** amounts to 1130 - 1150 g/dm³.

7. Packing and storage

BETOLIT EP 0-1 DC flex component A is supplied in cans of 1.5 kg, component B is supplied in cans of 1.0 kg. The shelf life of the product in original undamaged packing is 24 months. During storing and transportation take into account that it's a flammable material of a IV. Class.

8. Health protection at work

Work with a two-component system **BETOLIT EP 0-1 DC flex** requires usual safety precautions. It is necessary to protect themselves from direct contact of the composition or its components with the skin and eyes by consistent use of protective equipment during mixing and application. In case of eye contact, immediately flush open eye for at least 15 minutes with lukewarm water and seek medical advice. In case of skin contact, wash immediately with lukewarm water. Detailed data on safe handling and health protection can be found in the material safety data sheets of the individual ingredients.

Non-hardened **BETOLIT EP 0-1 DC flex** is a flammable material of the IV. Class.

Issued MSDS meets the requirements of EC-Regulation 1907/2006, Article 31.

Because the product meets the criteria for classification as hazardous, it is necessary to provide the recipient or carriers with MSDS.

In countries where regulation REACH (par. 33.1): EU regulation on chemicals and their safe use (REACH: EC 1907/2006) is valid, professional users and distributors must be provided with following information automatically and without request:

This product is subject to Regulation (EC) No. 1907/2006 (REACH). It does not contain any substances that could be released from product under normal or reasonably foreseeable conditions of use. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation.

Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from candidate list published by the European Chemicals Agency in concentrations above 0.1% (w / w).

9. Waste disposal


During disposal of contaminated packages or clearing debris from product, it is necessary to follow the Act No. 185/2001 Coll. on waste, as amended.

10. Important notice

All information mentioned above, especially advice for processing and application of our products, is based on our knowledge from the development of chemical products and on years of experience with applications in practice at standard conditions, and proper storage and use. Due to the differing conditions during processing, high count of products, varying nature and modifications of base and other external influences, the procedure based on the information provided or on other written or oral recommendations, may not always ensure satisfactory working results. BETOSAN s.r.o. assumes no liability for provided advice or recommendation. The applicator must prove that he submitted complete information on time and in writing which is necessary for a proper detailed assessment by BETOSAN s.r.o. The applicator must test the suitability of the products for the intended application. Proprietary rights of third parties, above all, must be taken into account. All received orders are subject to our current "General sales and delivery conditions". Please always make sure that you follow the most recent issue of the Technical Data Sheet. It is available, along with other information, at our Technical Department or at www.betosan.cz.



11. CE marking

 1301	
BETOSAN s.r.o. Na Dolinách 28, 147 00 Prague 4	
07	
7-16/072013	
EN 13813:2002 SR-F20-B2	
BETOLIT EP 0-1 DC flex Low viscosity flexible epoxy sealing composition	
Reaction to fire	F
Abrasion resistance according to BCA	NPD
Adhesion	B2.0
Impact resistance	NPD
Compressive strength	NPD
Tensile bending strength	F20

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