

DENSOCURE R forte



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CONCRETE REPAIR

Sealing and finishing coating

1. Product characteristics

Single-component sealing and finishing paint based on synthetic resins and containing water-repellent components. Meets the requirements of EN 1504-2.

- supplied in optimum consistence fit for direct application; no additional dilution is needed
- generated film is permanently water-resistant and resistant to alkaline environment
- applied by roller, manual coating or spraying using a suitable air-less equipment
- enhances resistance of surface layers to effects of aggressive media (oils, oil products, inorganic salts, etc.)
- significantly inhibits effects of carbon dioxide upon surface concrete layers
- hydrophobes treated surfaces and structures
- facilitates maintenance of treated floor layers

2. Use

DENSOCURE R forte is a single-component compound based on synthetic resins, and is used for the surface finishing of cement constructions, and for concrete, during repairs of reinforced concrete structures. It is also employed in laying concrete and the fabrication of new concrete elements and surfaces. Meets the requirements of EN 1504-2, attachment ZA, TP ŘSD Sec. 31 and TP SSBK III.

In addition to this, **DENSOCURE R forte** finds application in the treatment and finishing of floor structures. Surface finishing of fresh concrete with the paint prevents the mixing water of the concrete from evaporating, thus ensuring proper curing and hardening of the concrete floor surface. It suppresses absorption of water and seals the porous structure of the floor surface. All this contributes to improving considerably the chemical durability of the concrete floor surface and facilitates its maintenance. Very favourable results have also been obtained in surface finishing of non-plastered brickwork, ceramic roof tiles and natural stone carried out in order to provide protection from water and aggressive components of the atmosphere.

3. Physical and mechanical properties

Requirements/results according to EN 1504-2

	Testing method	Requirements	Results
Water vapour permeability	EN ISO 7783-1	Class I < 5 m	complies
Water penetration rate in liquid stage (kg/m ² h ^{0.5})	EN 1062-3	w < 0.1	< 0.1 %
Adhesive Bond (MPa)	EN 1542	> 1.5	> 1.5
Chemical resistance	EN ISO 2812-1	no visual damage	complies
Adhesion bond to wet concrete (MPa)	EN 13578	pull-off test > 1.5	complies

Physical and mechanical parameters

Colour of composition	Clear liquid
Colour of generated film	Transparent
Density (g/cm ³)	0.84 ± 0.04
Drying-out (untacky)	Up to 2 hours
Recoatibility	Up to 4 hours
R _d ^{CO2} (total coating thickness 100 μm)	> 300 (m)

4. Test certificates

Meets the requirements of EN 1504-2.

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. The base for application of the treatment spray are fresh laid or applied layers of repair materials, concretes and cement mortars and, generally, materials on cement basis. The treated surface shall not be covered by a continuous water film (the surface should be dully dump). Dirt, dust and possible residues of de-stripping agents shall be also removed.

Preparation of curing agent. The curing agent is supplied ready for application; no additional dilution is needed. Neither temperature of the base nor temperature of ambient air shall be below + 5 °C and above + 35 °C.

Applying the coating. **DENSOCURE R forte** is applied by roller, manual coating or spraying using a suitable airless equipment. The coating is usually applied in several layers so that total consumption of the treatment agent amounts to 300 g/m². If the substrate is absorbent it should be cured by **DENSOCURE R** primer in amount of about 150 g/m². Tools and aids shall be cleaned by C 6000 thinner immediately after completion of work.

6. Specific consumption

Specific consumption of the **DENSOCURE R forte** coating applied in 2 layers amounts to ca. 0.3 kg/m² depending on the absorbency and the roughness of the substrate.

7. Packing and storage

DENSOCURE R forte is supplied in metal cans with an 8 kg or 4 kg net capacity. The shelf life of the product in original intact packing is 12 months.

8. Health protection at work

Work with the **DENSOCURE R forte** paint requires usual sanitary measures. During application use of common personal protective equipment (mask, rubber gloves) is assumed. The product is the combustible matter of class II. In case of accidental affliction of mucous membranes or skin wash thoroughly the irritated place and in case of accidental swallowing immediately cause vomiting. In both cases seek out medical aid. After work treat the skin by a suitable reparative cream.

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 are orders 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 Praha 4	
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1301-CPD-0257	
EN 1504-2:2004	
DENSOCURE R forte Sealing and finishing paint	
Water vapour permeability	complies
Water penetration rate in liquid stage (kg/m ² h ^{-0.5})	< 0.1 %
Adhesive bond (MPa)	> 1.5
Chemical resistance	complies
Adhesive bond to wet concrete (MPa)	complies
Dangerous substances	meets 5.4

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