

DENSOCRETE 333



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CONCRETE REPAIR

Anticorrosive protection / Adhesive bridge

1. Product Characteristics

Adhesive bridge based on specially formulated cement binder suitable especially for use on very dense concrete substrates. Meets the requirements of EN 1504-7.

- suitable for both outdoor and indoor use
- excellent adhesion to a very dense substrate
- permanently water-resistant
- highly frost-resistant
- good workability
- applied manually or by machine spraying
- provides effective re-alkalisation around reinforcement

2. Use

DENSOCRETE 333 is a single-component mixture designed to protect the reinforcement (principle 11, method 11.1 according to EN 1504-9) and for creation of an adhesion layer between the concrete and reprofiling materials, especially of the **MONOCRETE**, **UNISAN** and **MONOMIX** series for repairing damaged concrete and reinforced concrete surfaces. It is particularly suitable for surface coating (overlying) using thin-layer mortars and screeds for dense substrates.

3. Physical and mechanical parameters

Requirements / results according to EN 1504-7

	Testing method	Requirements	Results
Corrosion protection	EN 15183	painted areas without corrosion and swelling from corrosion at the edge of the board <1 mm	Complies
Glass transition temperature	EU 12614	NPD	
Shear cohesion	EU 15184	NPD	

Physical and mechanical properties

Color	grey
Maximum layer thickness (mm)	10
Frost-resistance 25 cycles	> 0.75
Adhesion to concrete (MPa)	> 2.0
Compressive strength (MPa)	> 50
Tensile Strength (MPa)	> 5.0

4. Test certificates

Meets the requirements of EN 1504-7.

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 Systems, Environmental Relations and OSH is carried out by Certification Body No. 3029

5. Instruction for preparation and application

Base. Laitance or any incoherent, loose, weatherworn or otherwise visibly damaged concrete shall be completely removed from the repaired concrete surface before application. The concrete surface cannot be contaminated by substances negatively effecting adhesion to the base (fats, greases, oils, etc.). Tensile strength of concrete surface layers shall be 1.5 MPa at least. The corrosion reinforcement must be gently released and cleaned of all incoherent corrosion products (minimum grade Sa1½ according to ČSN EN ISO 12944-4). The substrate must be thoroughly dampened before applying the adhesive bridge.

Preparation of adhesive bridge. The mixture is single-component and is mixed with water only. To 10 kg of the dry mix (1 PE bucket) add 1.2 ÷ 1.4 l of water.

Workability at 20 °C is about 20 minutes. At higher temperatures, the workability time is shortened, and at lower temperatures the workability time is slightly longer.

Neither temperature of the base nor temperature of ambient air shall be below + 5 °C and above + 30 °C.

Bridge application. The adhesive bridge can be applied using a notched trowel (3 mm tooth). Alternatively, the adhesive bridge can be applied by machine spraying on larger areas. **DENSOCRETE 333** is applied to a perfectly moistened surface in one layer so that the thickness of the applied layer is about 0.5 to 1.0 mm. Onto such applied adhesive layer it is possible to immediately apply reprofilable mortar, finishing coat or newly applied concrete.

If the adhesive bridge is overlaid after a longer delay (more than 30 minutes), the surface of the adhesive bridge should be properly moistened with water.

Open time. After mixing with water, the so-called open time of the adhesive bridge is at 20 °C and the relative humidity is 50 ÷ 70% 30 minutes maximum. It is to be assumed that the open time is shortened with increasing temperature and decreasing relative humidity.

6. Specific consumption

Specific consumption of the adhesive bridge amounts to 1.9 ÷ 2.1 kg/m² at 1 mm layer thickness.

7. Packing and storage

DENSOCRETE 333 is supplied in PE buckets of 10 kg. **DENSOCRETE 333** must be effectively protected from moisture during transportation and storage. Shelf life in undamaged packaging is 6 months. At the end of the minimum shelf life indicated on the packaging, the full effectiveness of the chromium reducing agent VI below the 2 ppm limit is not ensured.

8. Health protection

No particular safety measures are necessary for handling **DENSOCRETE 333**. It is necessary to avoid particularly contamination of eyes and mucous membranes because the product (dry component) contains alkaline components.

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 (para. 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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2-47/072013	
EN 1504-7:2006	
DENSOCRETE 333 Anticorrosive protection/Adhesive bridge	
Corrosion protection	complies
Glass transition temperature	NPD
Shear cohesion	NPD

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