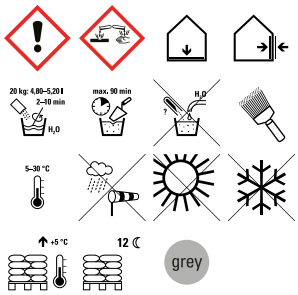
Technological instruction No. 09-001
BETAFORM® S01

Catalogue No.: 690100

BETAFORM® S01 is dry mortar mixture designed for maintenance and protection of concrete.



CHARACTERISTICS

Application

On prepared render and concrete constructions creates a thinlayer adhesion interlayer of maximum thickness of 3 mm.

TECHNICAL DATA

Criterion	Standard/test regulation	Value/Unit	Notes
Water vapor permeability	EN 1504	Class I	
Water penetration rate in the liquid phase	EN 1504	< 0.1 kg/(m^2.h$^{0.5}$)	
Tear test coherence	EN 1504	≥ 0,8 MPa	
Fire behaviour (class)	EN 13501-1	A2-s1,d0	

The specified characteristic parameters are average values. Due to the use of natural raw materials in our products, the specified values may insignificantly differ in individual deliveries. This, however, does not compromise suitability and reliability of our products.

SUBSTRATE

Requirements

It is applied onto common bases - firm, cement, polymer-cement or lime-cement renders, concrete or armoured concretes (made from portland or slag-portland cement), concrete reinforcement coated by anticorrosive paint. Use on bases of other types of cement and lightweight concrete should always be consulted with the producer.

Preparation of the material

Incoherent, unstable, mechanically or chemically attacked bases (or its parts) that can cause namely reduction of adhesion of consequently realised material layers must be suitably removed (regrated, reground, tapped or shot blast).

APPLICATION

Climatic conditions during application

Range of working temperatures is +5 °C to +30 °C. It is not recommended to realise the works under rain nor under higher temperatures on directly sunlit surfaces.

Workability period

90 minutes at +20 °C

Mixing ratio

BETAFORM® S01 is prepared by mixing of 100 weight parts of dry material into 24 to 26 weight parts of water according to the required consistency.

Preparation of the material

Mixing is done by means of a blender (drill adaptor) or a mixer with forced mixing. Mixing time is 2–10 minutes according to the used device. After mixing the mixture is left 10 minutes to mature and after short mixing it is prepared for use. The material is processed under temperatures from +5 °C to +30 °C, while temperature of the base, materials and water before mixing is also within this temperature range.

Consumption

(kg/m2) BETAFORM® S01: 0.55 up to 0.80 per 1 coat.

Spreading capacity

29.6 m^2 per one coat / bag (20 kg)

Application

It is applied in one or two layers by stock brush or by spraying with maximal total

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The company is registered in the Commercial Register at the Regional Court in Ostrava, part C, Insert 10601.

	thickness of 3 mm. Adjacent surfaces (windows, doors, banisters, switchgear boxes etc) must be protected against pollution by a suitable foil, tapes etc. Any polluted area must be cleaned in time because removal of dried material is difficult.
Drying, curing, revision time	The drying time depends on the temperature, strength of wind and relative humidity. On principle, protective measures must be taken (e.g. protection against rain) on the worked or just finished surface under adverse conditions. Hardening lasts about 1 day/mm of the coat thickness depending on the weather conditions. At an air temperature of +20 °C and relative air humidity of 65 % re-work is possible not earlier than after 48 hours.
Cleaning tools	Immediately after use clean with water.

DELIVERY

Colour hue	grey tint
Tintable	The product cannot be tinted.
Packing	The product is packed in 20 kg laminated paper bags.

STORAGE

Storage	Storability in the original packaging at the minimum temperature +5 °C, out of reach of water and humidity, is 12 months since the production date.
Storage period	12 months since the production date.
Ecology	Liquidation of not used remains is done by watering and depositing of the hardened inert substance as a building waste. Used packaging is liquidated as composite waste according to the valid legislation.

IDENTIFICATION

Product group	Maintenance of concrete
Composition	hydraulic and polymer binding substances, modifying additives, granulated fillers
Safety	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. P260 Do not breathe dust. P280 Wear protective gloves/protective clothing/eye protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical attention. P501 Dispose of container in accordance with local regulations. Hazard determining components: Product during storage life meets the legislative requirements for the content of soluble hexavalent chromium. Additional information: The effect of some of the ingredients on the aquatic environment are unknown. This product contains cement. Product during storage life meets the legislative requirements for the content of soluble hexavalent chromium.

SPECIAL INFORMATION

Regarding orders, transport, handling and storing, general sales conditions are applicable. Usage of the product is described in relevant technological sheet. Respect safety sheet instructions. The prescription is available at authorized dealers and on the address **www.stomix.com**.

The information provided takes in account the current status of the technology. We give general instructions based on our experience with application and results of the material tests. However, the information provided can't take into account the local conditions during the application, therefore, it can't be legally binding. In case of doubts or need to solve specific technical problems, please contact us.

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CE	STOMIX, spol. s r. o. 790 65 Skorošice 197 Czech Republic ID: 48400874	
	08	09-001-03

EN 1504-2:2006
Products and systems for the protection and repair of concrete structures
- Definitions, requirements, quality control and evaluation of conformity
- Part 2: Surface protection systems for concrete

Linear shrinkage:	NPD
Coefficient of thermal expansion:	NPD
Cross-cut test adhesion:	NPD
CO_2 permeability:	NPD
Water vapor permeability:	Class 1
Water penetration rate in the liquid phase:	< 0.1 kg/(m^2.$h^{0,5}$)
Thermal compatibility:	NPD
Thermal shock resistance:	NPD
Chemical resistance:	NPD
Crack bridging ability:	NPD
Tear test coherence:	≥ 0.8 MPa
Reaction to fire:	A2-s1,d0
Skid resistance:	NPD
Artificial aging:	NPD
Antistatic behaviour:	NPD
Adhesion to wet concrete:	NPD
Hazardous Substances:	Meets 5.4

WWW link

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