

BETAFORM S05

Technological instructions no.: 40-2

Safety sheet no.:

40

Composition:

hydraulic and polymer binding substances, modifying additives, granulated fillers

General description:

BETAFORM S05 is dry mortar mixture designed for maintenance and protection of concrete.

Merits:

It is used as repairing mortar mixture. BETAFORM S05 is designed for local and coherent repairs and re-profiling with thickness of layer of 4 to 15 mm.

Unit of measure:

kg

Consumption per m²:

1,95 kg/m² and 1 mm thickness of layer

Spreading capacity:

12,8 m² / bag (25 kg) (consumption per 1 mm of the thickness)

Grain size:

not mentioned

Packing:

The product is packed in 25 kg laminated paper bags

Customs code:

3214900000

Colour scheme:

grey tint

Thinning:

BETAFORM S05 is prepared by mixing of 100 weight parts of dry material into 17 to 20 weight parts of water according to the required consistency.

Bases:

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. 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). In case the mechanical strength of base and adhesion of consequently realised layers are to be increased, the bases must be impregnated by penetration coating. For impregnation the EH penetration coating is used, eventually a paint of BETAFORM S01 is made. Steel reinforcement in bases (without corrosion and coated with anticorrosive paint) is equipped by double paint of BETAFORM S01, eventually by the HC-4 base paint (new reinforcement - scaled-off, cleaned and degreased and coated with anticorrosive paint).

Warning:

The mentioned information are compiled upon current status of technique. They represent general instructions upon our application experience and material test results. However they cannot include local conditions at its application and due to this any legal liability cannot be deduced from them. In doubt or need of solution of specific technical questions please contact us.

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.

Workability period:

90 minutes

Description of application:

The BETAFORM S05 mortar dry mixture is applied by applicator or spraying. If the BETAFORM S01 is used for connection with the base as adhesion bridge, the BETAFORM S05 is applied immediately after light drying of the adhesive coating (within 3 hours at the latest). Levelling or smoothing-out is done by stainless steel smoother. Adjacent surfaces (windows, doors, banisters, switchgear boxes etc) must be protected against pollution by a suitable foil, removable or protective paints etc. Any polluted area must be cleaned in time because removal of dried material is difficult.

Flatness requirements:

not mentioned, the maximum thickness of the material may not be exceed

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.

Security (S-theorems):

S 2 Store out of reach of children.

S 22 Do not breathe the dust.

S 26 If eyes are hit immediately and thoroughly rinse them out and immediately seek medical help.

S 36/37/39 Use suitable protective clothing, gloves, goggles or face sheet.

Security (R-theorems):

R 36/37/38 Irritating for eyes, respirator organs and skin.

R 43 May provoke sensibilisation at skin contact.

Safety regulations:

The product contains cement and as such it is classified in the sense of the Act no. 157/1998 Sb. as irritating substance with Xi symbol. Protection of respirator organs is not necessary if the highest admissible concentration of 10 mg/m³ is kept. Product during storage life meets the legislative requirements for the content of soluble hexavalent chromium.

First aid:

Protect your eyes and skin against stain, do not eat, smoke nor drink during the work. After the work wash your hands with water and soap and apply a reparation cream. If your eyes are hit, rinse them with water minimally for 15 minutes. If consumed immediately rinse mouth, drink minimally 0,5 l of water, do not invoke vomiting and always seek medical help.

Recommended tools:

stainless smoother, automatic render applicator

Quality:

The product is certified for the mentioned use and tested by accredited testing laboratory. At production the product is controlled by the company laboratory subject to the certified quality management system subject to the ?SN EN ISO 9001 standard.

Storage:

The product must be stored in original packing protected against humidity, direct sunlight under temperatures minimally +5 °C. Under the mentioned conditions is the storage life 6 months from the production date. Production date is marked on the packing.

Liquidation:

Liquidation of not used remains is done by watering and depositing of the hardened inert substance as building waste. Used packaging is liquidated as composite waste according to the valid legislation.



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EN 1504 - 3

Products for protection and repairs of concrete structures, repairs with static function

Compressive strength: EN 12190 R3 \geq 25 MPa
Adhesion: EN 1542 R4 \geq 2,0 MPa
Resistance to carbonation: EN 13295 comply
Modulus of elasticity: EN 13412 R3 \geq 15 GPa
Thermal compatibility: EN 13687-2 R3 \geq 1,5 MPa
Dangerous substances: comply with 5.4