

Habenit® OS-1500

Range

Product	Packaging	Colour
Habenit OS-1500 solutions	15 kg, tins 220 kg, drums	Brown-grey*
Habenit OS-catalyst paste	40 g, tubes	-
Habenit OS-powder	25 kg, sack	-
Habenit OA-powder	25 kg, sack	-

* Reference to cured product.

Product description

Habenit OS-catalyst paste

Catalyst to be properly mixed with the solution before adding filler. Each kilo solution requires one tube (40 grams) Habenit OS-catalyst paste.

Habenit OS-powder

Filler to be mixed with solution and catalyst paste. OS-powder can be used for horizontal and vertical surfaces.

Quantity required

Setting**

Habenit OS-1500 with Habenit OS-powder		Habenit OS-1500 with Habenit OA-powder	
Quantity, kg/m ²		Quantity, kg/m ²	
Solution	OS-powder	Solution	OA-powder
2.6	6.9	2.3	7.7

The quantity figures are valid for a compound thickness of 5 mm, excl. of spillage.

** Priming of concrete base with solution and catalyst paste is estimated to require 0.4 kg/m².

Grouting

Tilesize, mm	Habenit OS-1500 with Habenit OS-powder		Habenit OS-1500 with Habenit OA-powder	
	Quantity, kg/m ²		Quantity, kg/m ²	
	Solution	OS-powder	Solution	OA-powder
95x195x12	0.6	1.5	0.5	1.6
105x215x19	0.8	2.2	0.7	2.3
147x147x14	0.6	1.5	0.5	1.6
150x150x19	0.8	2.0	0.7	2.2
150x150x21	0.9	2.3	0.8	2.4

The quantity figures are valid for 6 mm wide joints, excl. of spillage.

Technical data

	Habenit OS-1500 with OS-powder	Habenit OS-1500 with OA-powder
Density	1900 kg/m ³	2000 kg/m ³
Modulus of elasticity	Appr. 15 GPa (appr. 1,5x10 ⁵ kp/cm ²)	Appr. 17 GPa (appr. 1,7x10 ⁵ kp/cm ²)
Tensile strength	Appr. 10,5 MPa (appr. 110 kp/cm ²)	Appr. 10,5 MPa (appr. 105 kp/cm ²)
Strength in bending	Appr. 22 MPa (appr. 225 kp/cm ²)	Appr. 23 MPa (appr. 230 kp/cm ²)
Compressive strength	Appr. 78 MPa (appr. 800 kp/cm ²)	Appr. 78 MPa (appr. 800 kp/cm ²)
Adhesion to ceramics	1)	1)
Adhesion to metal	Appr. 6 MPa (appr. 60 kp/cm ²)	Appr. 6 MPa (appr. 60 kp/cm ²)
Coeffic. of expansion	4x10 ⁻⁵	3x10 ⁻⁵
Max. permissible temp.	+100°C	+100°C

1) Break in the ceramic material.

Habenit OA-powder

Filler used for horizontal surfaces only. The higher content filler accepted when using OA-powder gives low shrinkage. OA-powder is used also for grouting according to slurry-method. Observe the importance of a suitable tile protective coating (CMC or wax).

Habenit OS-1500

Habenit OS-1500 is a polyester-based lining and grouting compound with good durability against acids (esp. oxidizing acids). The compound adheres well to sheet metal, concrete and ceramic material.

Habenit OS-1500 consists of three components: solution + catalyst paste and powder. The setting time is appr. 3–5 hours at +20°C.

N.B. For areas exposed to hydrofluoric acid (HF) the special Habenit OSG-powder shall be used. Please contact our technical department.

Chemical resistance

The chemical resistance of acid-resistant mortars is specified in "CC Höganäs Building Mortars, Acid-resistant mortars, survey, product data".

Fields of application

Habenit OS-1500

Habenit OS-1500 is used for the complete setting (same compound for lining and grouting) or pointing of brickwork and flooring where high demands are made on the resistance to oxidising agents and on the liquid tightness, e.g. for the brickwork in the pulp and textile industries where chlorine dioxide bleaching is carried out. Other applications are in galvanising, steel and steel strip works where pickling baths of HNO₃ are used.

Habenit OSG-1500 should be used if hydrofluoric acid (HF) is present, e.g. in pickling baths.

Mixing

Habenit OS-1500 with OS-powder

For setting and grouting mix 40 g Habenit OS-catalyst paste with 1 kg solution, after which approx. 2.7 kg Habenit OS-powder is added until the required consistency is obtained.

Habenit OS-1500 with OA-powder

For setting mix 40 g Habenit OS-catalyst paste with 1 kg solution, after which approx. 3.4 kg Habenit OA-powder is added. For grouting mix 40 g Habenit OS-catalyst paste with 1 kg solution, after which approx. 3.2 kg Habenit OA-powder is added.

The components are mixed until the compound is homogeneous. Mixing should be carried out with a mixer or a low-speed drilling machine with a spiral mixer. The viscosity of the solution depends on the temperature. The quantity of powder given above is for mixing at +20°C. Small variations in the quantity of powder have very little effect on the setting time or the properties of the compound.

The compound should be used within 1 hour of being prepared. For higher temperature than +30°C a retarding agent is available. Setting time is approx. 3–5 hours at +20°C.

Applications

Surfaces to be grouted should be dry and free from loose particles, oil and grease. For complete setting, the condition of the underlying surface should be noted. It should be repaired if it is not satisfactory and should generally be primed with solution and catalyst paste (40 g catalyst paste and 1 kg solution).

Large areas should be grouted using a pressure gun. Smaller areas can be grouted more easily using a trowel. Trowel grouting or slurry-jointing is more time-consuming and the tiles must be cleaned after the work has been done. Use tile protective coating (CMC or wax).

Floors are grouted in the longitudinal direction of the tiles and the joints are overfilled 3–4 mm. If the overfill is removed (with a trowel or piece of sheet metal) within 15 minutes, it can be reused. The overfill should be removed in the same direction as it was applied, starting at the same point. To obtain smooth and even joints, they should be brushed lightly with a brush moistened in acetone. Expansion joints in floors should be protected during jointing by being filled with strips of porous fibreboard or the like. Tiles set in cement mortar should not be jointed within a week of being laid. Tiles set in plastic-based compound may be jointed after 1 day.

During application the temperature of tiles and surface should be at least +15°C.

Cleaning

Clean tools and the mixing bowl with acetone before the compound hardens.

Storage and transport

The solutions and catalyst paste is to be stored and transported in a dry and frostfree place and in closed packages. The storage temperature should not exceed +25°C. The packages should be protected from direct sunlight. The self life is at least 1 year. The powdersacks should be kept away from moisture and should be stored and transported in unopened packages.

Skyddsföreskrifter

Detailed precautionary measures are printed on each package. The solutions contain styrene and the catalyst paste contains organic peroxide. Styrene is highly inflammable and inhalation of large quantities can cause intoxication. The catalyst paste is corrosive to eyes and skin. May cause irritation and redness by skin contact. Habenit OS-powder and OA-powder contains quartz.