

Coating acc. to OS 8 classification DIN V 18026

Important instructions for laying companies:

OS 8 in **newbuilds** as a protective measure according to DIN EN 13813 **min. 1,5mm**
OS 8 for **repairs min. 2,5mm**.

In order to provide an accurate quote, the laying company needs to know exactly whether the surface protection system is meant for concrete supporting structures or just as a coating system i.e. for a floor slab.

Concrete supporting structures subjected to static loads i.e. a concrete ceiling, need to be coated with a layer thickness of at least 2,5 mm. Non load bearing concrete structures (usually the exception), can be coated with lesser layer thicknesses.

Certification as an OS 8 system does not require a certain system setup or predetermined layer thickness. It is only the production and products that are tested and certified.

The manufacture of an OS 8 system is a technical accomplishment and is thus dependent on other factors which are not influenced by ROMEX products.

These include the grainsize of the sprinkled sand, the quantity of sprinkled sand and the filler material mixtures supplied by the contractor.

The laying company thus has a particular responsibility to make sure that all additives and products are used in such a way as to ensure that the contractually specified properties of the finished coating are present.

If for example, there is a tender for carpark coating repair works using the OS 8 system with 1,5 mm layer thickness, then it is possible, that the laying company could get into trouble, for not recognising that a loadbearing concrete structure needs a minimum layer thickness of 2,5 mm. Notice of such a situation needs to be given to the architect in writing and clarified before work is carried out.

From personal experience, ROMEX recommends the following setup guidelines when laying an OS 8 system with 2,5 mm layer thickness, whereby the responsibility for the system lies firmly with the laying company, as they carry out the technical aspects of the work and oversee the various processes carried out by the contractor using filler, sprinkling and construction materials. Other factors that need to be taken into consideration are construction site conditions such as porosity and roughness of the surface, temperature and air humidity, because they can all affect the type of system setup that is necessary.

The system setup needs to be changed or adapted when there are additional requirements regarding slip safety. These can only be fulfilled when additional technical construction additives are used. You should become fully informed about any necessary additional works such as hollow concaves etc.

The following standard specifications for sales are 2 suggestions for an OS 8 system with approx. 1,5 mm and approx. 2,5 mm layer thickness.

Coating according to OS 8 classification approx. 2,5 mm layer thickness

Item	Description	<u>Quantit</u> y Unit	<u>Unit price</u> €/Unit	<u>Total price</u> €
1.	<p>Concrete preparation: The minimum adhesion strength of the concrete needs to be 1,5 N/mm². If this is given, then the concrete surface should be prepared by shotpeeing. If minimum adhesion strength is not given, then the faulty concrete surface should be ground, milled or shot peened down to the original concrete. Before coating work is carried out, the surface must be dry (residual moisture ≤ 4 %), free of dust, grease and oil as well as free of other substances that could act as separators, and loose particles, to ensure good adhesion of the coating.</p>			-on the part of the contractor-
2.	<p>Priming: A high quality, solvent free, epoxy resin primer is applied with rollers to the prepared surface. Material: ROMPOX® 1506OS Consumption: 0,3 - 0,4 kg/m² Price: €/kg</p>		0,00	0,00
3.	<p>Scraping filler: Using high quality, solvent free epoxy resin. Material: ROMPOX® 1506OS Consumption: approx. 0,8 kg/m² binding agent with firedried quartz sand 0,3-0,8 mm mixed with a ratio of 1:1 Price: €/kg</p>		0,00	0,00
4.	<p>Sprinkling with sand: The scraping filler is sprinkled with fire-dried quartz sand, grainsize 0,7 - 1,2 mm. Loose sand is swept away after drying. Consumption: approx. 3,0 - 4,0 kg/m²</p>			-on the part of the contractor-
5.	<p>Topcoat sealant: A topcoat sealant made of high quality epoxy resin is applied with rollers in order to better bind grains of sand, to seal the surface and thus to achieve better cleaning capability. Material: ROMPOX® 1005OS acc. to ROMEX paintchart Consumption: approx. 0,7 -1,2 kg/m² Price: €/kg (Due to the environmental conditions that are often found in carparks, this grainsize will have a consumption of >1,0 kg/m².)</p>		0,00	0,00
Cost of materials			0,00	0,00

Coating corresponding to OS 8 classification approx. 1,5 mm layer thickness

Item	Description	Quantity Unit	Unit price €/Unit	Total price €
1.	<p>Concrete preparation: The minimum adhesion strength of the concrete needs to be 1,5 N/mm². If this is given, then the concrete surface should be prepared by shotpeeing. If minimum adhesion strength is not given, then the faulty concrete surface should be ground, milled or shot peened down to the original concrete. Before coating work is carried out, the surface must be dry (residual moisture ≤ 4 %), free of dust, grease and oil as well as free of other substances that could act as separators, and loose particles, to ensure good adhesion of the coating.</p>			-on the part of the contractor-
2.	<p>Priming: A high quality, solvent free, epoxy resin primer is applied with rollers to the prepared surface. Material: ROMPOX® 1506OS Consumption: 0,4 - 0,6 kg/m² Price: €/kg</p>		0,00	0,00
3.	<p>Sprinkling with sand: The fresh primer is sprinkled with fire-dried quartz sand, grainsize 0,3 - 0,8 mm. Loose sand is swept away after drying. Consumption: approx. 2 - 3 kg/m²</p>			-on the part of the contractor-
4.	<p>Topcoat sealant: A topcoat sealant made of high quality epoxy resin is applied with rollers in order to better bind grains of sand, to seal the surface and thus to achieve better cleaning capability. Material: ROMPOX® 1005OS acc. to ROMEX paintchart Consumption: approx. 0,7 - 0,9 kg/m² Price: €/kg</p>		0,00	0,00
Cost of materials			0,00	0,00

(Issue 2014-07-15) bä, hb
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