

CM 900 Industrial Base



INDUSTRIAL

PUMPABLE

CM 900 Industrial Base is a pumpable self-levelling underlayment.

Intended Use

The product is intended for indoor use on substrates of concrete. CM 900 is used as a build-up and sublayer to CM 920, CM 920 Design, CM 940 or CM 960.

Pre-treatment

The substrate should be clean and free of dust, cement skin, grease and other impurities that can prevent adhesion. Adhesion and surface resistance of the substrate should be no less than 1.5 MPa. Always prime the underlying substrate with PP 600 and allow to dry before pouring. In terms of the primer forming a film and the curing of the self-leveling, the temperature of the substrate must not fall below 10 °C. For best results, the ambient temperature in the work area should be between 10 and 25 °C. At higher or lower temperatures, the time for curing will shorten or extend. With the risk for cracks due to shrinkage or settings in the subfloor, a concrete surface should not be leveled within the first 28 days after casting. As a recommendation the RH in the concrete should have reached RH 95 % as the upper limit for pouring the CM 900. Use the Combimix form foam for edging. In order to avoid drainage pipes from getting clogged, always make sure that the drains are properly sealed before pouring.

Mixing

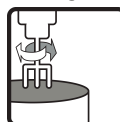
Mix the dry powder with max 3.4 liters of water (max 17 %) per 20 kg bag. Mix with a drilling machine and a whisk, or a mixing pump intended for this purpose. The correct water mixture can be tested using a slump test with a cylinder with Ø 30 mm and a height of 50 mm on a 300 x 300 mm plexiglas plate. With the correct water mixture, the spread should be max 125 mm. The slump test also checks that the material is well blended and that there is no separation.

Water requirement



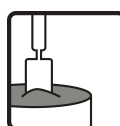
3,4 l/20 kg

Mixing time



3 min

Workable



15–25 min

Working temperature



10–25 °C

Walkable



1–3 hrs

Weather protection



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Execution

The mixed material is applied by hand, or pumped out onto the substrate in lengths. Each new ribbon is added to the old one as soon as possible so that the material can blend together and create an even surface. The width of the ribbons can be adjusted to the capacity of the mixing pump and the thickness of the covering. The material requires a light treatment with a toothed trowel to provide maximum smoothness.



Post-treatment and curing

You can easily shape or cut the semi-hardened self-levelling underlayment material before it fully dries. CM 900 shall always be coated with a toplayer of CM 920, CM 920 Design, CM 940 or CM 960. The product shall not be coated with epoxy or PU directly. Newly produced surfaces must be protected against wind, sun and rain.

Storage time and packaging

Store in a dry environment, on an unopened plastic-coated pallet. Paper packaging: Shelf life is 6 months in unopened original packaging from the date of production. Plastic packaging: Shelf life is 9 months in unopened original packaging from the date of production. The date of production is indicated on the packaging. The product is supplied in 20 kg bags, in big bags and in bulk.

Residual Products and Safety Instructions

Paper packaging: Empty packaging is sorted as residual waste. Plastic packaging: Recycle empty and cleaned bags. Any remaining, dry powder that has been stored properly can be used again. Hardened material should be disposed of as construction waste. Do not wash the product into the sewage system. The cement in the product has a reduced level of chromate. Follow regulations in each respective country.

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HMS Info

For current version of product information, contact Combimix at info@combimix.se. Previously undated and dated issues are no longer valid. For more information contact our sales organization.

Övrigt

The product must always be given a surfacing comprising CM 920 Industri, CM 940 Industri Top or CM 960 Industri Super Top.

Disclaimer

pdf-disclaimer

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Product specification

Environment	indoor
Substrate	concrete, ceramic tiles/clinker, stone, heated floor systems
Slope construction	yes, no
Leveling layer	5–100 mm
Grain size	< 2 mm
Material consumption	1.7 kg/m ² /mm
Water requirement	3,4 l/20 kg
Flowability	max 125 mm
Working temperature	10–25 °C
Mixing time	3 min
Workable	15–25 min
Drying time category	sjalvtorkande
Walkable	1–3 hrs
Water damage resistant	yes
Surface tensile strength 28 days (ground loaded surface)	> 1.5 MPa
Free shrinkage	0.03–0.05 %
Final surface	clinker, limmade-plastmattor, loslagt-tragolv, tatskikt
Release of corrosive substances	CT (as per EN 13813)
Compressive strength class	C25 (as per EN 13813)
Compressive strength, average	35 MPa (as per EN 13813)
Flexural strength class	F5 (as per EN 13813)
Flexural strength class, average	7 MPa(as per EN 13813)
Fire class / Reaction to fire	A1fl (as per EN 13813)
Adhesion	B1.5 (as per EN 13813)