



DATA SHEET 2015

FINISHED PRODUCT

SELF-LEVELLING MORTAR FOR CREATING CONTINUOUS FLOORS IN INDUSTRIAL AREAS

Very quick drying mortar. Cement based. For thicknesses up to 5 mm. Self-levelling. No fissures even in thick layers. Levelling and renewing industrial and commercial surfaces. Pumpable. Passable after 3 hours. Very resistant. Quickly put into service. Company approved by

Field of applications:

Levelling and renewing concrete pavements, concrete and anhydrite decks, ceramic, non-ceramic and other cladding. Creating surfaces for installing ceramic, natural stone and other cladding. Creating decks in commercial and industrial sectors, sealed with protective coating.

Characteristics:

Based on special cements and plasticizers with high dispersion capacity and special fillers. Mixed with water to obtain a smooth, self-levelling and pumpable mortar, it is workable for 1/2 hour and passable in 3 hours. The mortar is dry, non-shrink and hardens by hydration, avoiding the appearance of any fissures.

Preparing the base:

The base must be dry, clean, compact, free of dust and release agents. The relevant priming must be carried out in accordance with the instructions given in the EUROTAFF EP 305 data sheet. For dense and non-porous bases, apply EUROTAFF EP 305 primer, sprinkling quartz afterwards. The base must always remain dry.

Instructions:

Using a clean container, fill with some clean water and add the powder, mixing strongly with a stirrer until obtaining a homogenous and fluid mortar. The mix ratio is 4 3/4 - 5 1/4 l. per 25 kg. The mortar can be worked for approx. 1/2 hour at temperatures between 18-20°C. Low temperatures increase and high ones reduce the workability time. The mortar can be spread easily and smoothed without any patches.

Mortar application:

The E. M. C. - MSA mortar can be applied using a spreader and smoothed with a float. For small surfaces which require planimetrics for placing the cladding, levelling is made using E. M. C. 15 over E. M. C. - MSA fresh on fresh. Use the same procedure for large surfaces, having allowed the E. M. C. - MSA to dry beforehand and having primed with EUROTAFF EP 305 diluted 1:3 with water.

Layer thickness:

A thick layer of up to 50 mm of E. M. C. - MSA can be applied to concrete pavements, cement decks and flat non-porous bases, having applied a bonding coat of sanded EUROTAFF EP 305. A continuous layer of E. M. C. - MSA up to 10 mm thick can be applied to anhydrite bases. For thickness over 10 mm and up to a maximum of 20 mm, E. M. C. - MSA must be extended with sand.





MIX MATERIAL		MIX RATIO:	
WASHED	GRAIN SIZE	MORTAR:	MIX MATERIAL
SAND	0.4 mm	1.0 PART	0.3 PARTS
SAND	0.8 mm	1.0 PART	0.3 PARTS

Work E. M. C. - MSA at temperatures over 5°C. The surface layer must be protected from drying too quickly due to action by the Sun and draughts.

Small sites:

Using a 50 l. capacity container, fill it with 10 to 10.5 l. of clean water. Using an electric mixer, mix 50 kg. = 2 sacks of E. M. C. - MSA until obtaining a lump-free homogenous mortar.

Large sites:

Cavity, cylindrical or continuous pumps capable of pumping 20-40 l. of mortar per minute are required. If sand-extended mortar is applied, the hoses must be lubricated with a mixture of 1 sack E. M. C. - MSA and 8 l. water. Using cement slurry is forbidden to lubricate the hoses. The machine and the hoses must be washed if not used for longer than 1/2 hour.

Producing useful layers in industrial and commercial environments:

The load capacity of the base, whether a cement or concrete deck, must resist the load. The base should be shot blasted or drilled in order to remove impurities, release agents, superficially loose areas and the accumulation of binding agents. These prepared surfaces must be primed with EUROTAFF P51 diluted in water 1:1. In certain cases, it might be necessary to prime with EUROTAFF EP2000 sprinkled with sand. E. M. C. - MSA is load resistant, as stated in part 1 of the corresponding AGI A 12 work sheet of "Industrial Pavements", for cement decks with solid class ZE 30- ZE 50 with no downdrag.

Recommendations:

E. M. C. - MSA cannot be used outdoors or in constantly wet areas.

Warning:

Contains cement. Reacts with alkalis. Protect skin and eyes. If in contact with the eyes, wash thoroughly with water and consult a doctor. Once dry, the product is physiologically and ecologically inoffensive. The product contains low chromate cement.

Technical data:

Based on tests undertaken in our laboratory.

Mix ratio:

YIELD 4 3/4 - 5 1/4 litres of water for 25 kg. of powder, which corresponds approx. to 1 vol. water : 3 3/4 vol. powder.





Density Approx.	1.27 kg/l.
Density of fresh mortar:	Approx. 2.0 kg/l.
Layer thickness:	
Yield of the material:	Approx. 1.65 kg. powder per m ² and mm
Effective workability time (+20° C):	Approx. 1/2 hour
Protection seal. EUROTAFF-COAT:	After pouring the mortar: Up to 10 mm: 1 day Up to 30 mm: 3 days Up to 50 mm: 7 days
Compression strength:	After 1 day approx. 14 N/mm ² After 7 day approx. 20 N/mm ² After 28 day approx. 32 N/mm ²
Flexural strength:	After 1 day approx. 3.8 N/mm ² After 7 day approx. 5.8 N/mm ² After 28 day approx. 9.0 N/mm ²
Hardness	After 1 day approx. 60 N/mm ² After 7 day approx. 65 N/mm ² After 28 day approx. 90 N/mm ²
Apt for wheeled furniture:	Yes
Packaging:	25-kg net sacks
Storage:	Approx. 12 year in dry place in original closed packaging.
Effective time:	Approx. 25 minutes (at 20°C)

