



Equipment Planner

Coating systems for industrial floors

EXPERTISE
FLOOR COATING





Equipment Planner

for Industrial Flooring

The following offers a selection of various tools suited to the application of specific materials from the product portfolio of

MC-Bauchemie Müller GmbH & Co. KG

aligned to the individual operations involved in building up a multi-layer coating system. The tools listed here and the corresponding article numbers refer to a selection of those available from the German tool supplier

PPW-Polyplan-Werkzeuge GmbH

www.polyplan.com

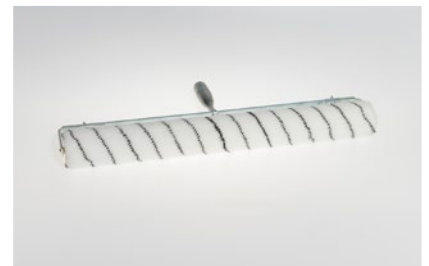
As the Polyplan website is in German only, in the following we have provided translations of the tool names listed. You can either select the tools indicated or find equivalents from your own sources. The coverage data / consumption quantities of MC products indicated may vary depending on the viscosity and temperature of the material as well as differing ambient conditions (substrate roughness, substrate temperature, etc.). The information provided in this equipment planner is based on our experience and correct to the best of our knowledge. It is, however, non-binding. It will need to be adapted to the requirements of the individual project, structure, the specific application and – especially – to local conditions. Recommendations of our employees deviating from the information given herein or in our data sheets / information leaflets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. It is advisable to prepare a small sample area in advance and note the consumption levels involved in order to calculate the exact material quantities required.

Priming	4
Scratch and levelling coat application	4
Strewing layer, standard coatings	5
Strewing layer, OS 8 flex	5
Waterproofing layer, OS 8 flex/OS10	5
Strewing layer, OS 8 flex/OS10	5
Strewing layer, MC-Duroflake and MC-Durofloor	6
Strewing layer of a roller coating	6
Top seal coat on Strewing layer	6
Sealing of smooth substrates	7
Float coats	7

Priming

Material	Consumption [g/m ²]	Tools
MC-DUR 111 D transparent	approx. 250	Foam rubber squeegee (Article No. 4660)
MC-DUR 1177 WV-A	approx. 250	
MC-DUR 1365 HBF	approx. 900	Rubber squeegee, black (Article No. 1716)
MC-DUR 1200 VK	approx. 300	
MC-DUR 1320 VK	approx. 300	Large woven pile roller (Article No. 3160PK)
MC-Floor TopSpeed SC	approx. 300	
MC-Duroflake (MC-DUR 1205)	approx. 300	
MC-Durofloor (MC-DUR 1205)	approx. 300	

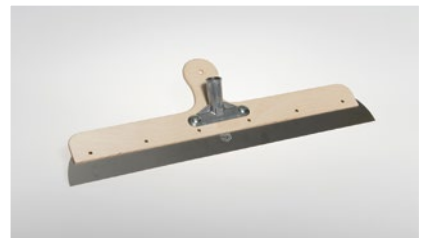
With a few exceptions (e.g. MC-DUR 1365 HBF), primers are applied by pouring and then spreading with the rubber squeegee, followed by levelling and equalising with a lambskin roller to avoid puddle formation. The consumption level is usually around 300 g/m².



Scratch and levelling coat (MR 1:1 parts by weight resin mixed with QS 0.1–0.3 mm)

Material	Consumption [g/m ²]	Tools
MC-DUR 1101	approx. 1200	Smoothing trowel (Article No. 92B)
MC-DUR 1200 VK	approx. 1200	
MC-DUR 1320 VK (MV 1,5:1)	approx. 1100	Smooth-edged steel-bladed spreader (Article No. 655)
MC-Floor TopSpeed SC	approx. 1200	
MC-Duroflake (MC-DUR 1205)	approx. 1200	
MC-Durofloor (MC-DUR 1205)	approx. 1200	

A scratch and levelling coat serves to close pores and blow holes and to level the substrate. The scratch and levelling coat should be scraped over the grain tips (peaks) of the substrate with a rigid tool. Where small areas are concerned, application is best done kneeling with a smoothing trowel. For larger areas, a smooth-bladed steel spreader is recommended.



Strewing layer, standard structure (MR 1:0.5 parts by weight resin mixed with QS 0.1–0.3 mm)

Material	Consumption [g/m ²]	Tools
MC-DUR 1200	approx. 1500	Smooth-edged steel-bladed spreader (Article No. 655)
MC-DUR 1252	approx. 1500	
MC-DUR 1322	approx. 1500	
MC-DUR 1800 / 1900	approx. 1500	



For a standard anti-slip coating structure, the material is pre-filled to 50 % with 0.1 – 0.3 mm quartz sand and then spread either kneeling with a smoothing trowel or standing with a smooth-edged steel-bladed spreader. The surface is then strewn in excess with of approx. 5 kg/m² quartz sand, e.g. 0.3 – 0.8 mm.

Strewing layer, OS 8 coatings (filled with QS 0.1–0.3 mm)

Material	Consumption [g/m ²]	Tools
MC-DUR 1252 (MV 1:0,5)	approx. 2200	Serrated steel-bladed spreader, 645 mm (Article No. 76, 76E-93)
MC-DUR 1320 VK (MV 1,5:1)	approx. 2000	
MC-Floor TopSpeed SC (MV 1:0,5)	approx. 1800	



To achieve a verified OS 8 grade coating, it is absolutely necessary to apply sufficient material to ensure the minimum layer thickness of 2.5 mm required for that grade. The precise structure of the coating must be in accordance with the corresponding test reports.

Waterproofing layer, OS 8 flex / OS 10

Material	Consumption [g/m ²]	Tools
MC-Floor TopSpeed flex	approx. 400	Serrated rubber spreader, 2 mm (Article No. 59 / 59E02)
MC-Floor TopSpeed flex plus	approx. 500	



A 2 mm serrated rubber spreader is used to lay the waterproofing layer so as to achieve a coating structure compliant with the grades OS 8 flex or OS 10. The precise structure of the coating must be in accordance with the corresponding test reports.

Strewing layer, OS 8 flex/OS 10

Material	Consumption [g/m ²]	Tools
MC-Floor TopSpeed	approx. 400	Serrated rubber spreader, 2 mm (Article No. 59 / 59E02)



The strewing layer of both the OS 8 flex and the OS 10 flexible coatings is also applied with a 2 mm serrated rubber spreader.

Strewing layer, MC-Duroflake and MC-Durofloor

Material	Consumption [g/m ²]	Tools
MC-Duroflake (MC-DUR 1200)	approx. 1200	Smoothing trowel (Artikel-Nr. 92B)
MC-Durofloor (MC-DUR 1200)	approx. 1400	

The dry-shake layer of the MC-Durofloor and MC-Duroflake coatings is applied kneeling with a smoothing trowel or standing with a smooth-edged steel-bladed spreader. Ensure compliance with the mixing ratios for the strewing layer indicated in the relevant technical data sheets.



Strewing layer of a roller coating

Material	Consumption [g/m ²]	Tools
MC-DUR 2496 CTP	approx. 300	Perlon pile roller (Artikel-Nr. 3125PK)
MC-Floor TopSpeed	approx. 300	

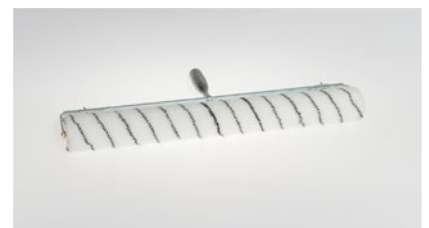
For the construction of an anti-slip industrial floor made of MC-DUR 2496 CTP or MC-Floor TopSpeed, the strewing layer is pre-rolled with a short pile perlon roller and then levelled and equalised with the woven short pile large roller. The area is then immediately strewn with quartz sand to an appropriate degree from light to full saturation.



Top seal coat on Strewing layer

Material	Consumption [g/m ²]	Tools
MC-DUR 1252	approx. 700	Rubber squeegee, black (Article No. 1716)
MC-DUR 1322	approx. 600	
MC-DUR 1800	approx. 500	
MC-DUR 1900	approx. 500	
MC-Duroflake (MC-DUR 1205)	approx. 400	Rubber squeegee, white (Artikel-Nr. 1717B0)
MC-Durofloor (MC-DUR 1205)	approx. 500	
MC-Floor TopSpeed	approx. 500	
MC-Floor TopSpeed T	approx. 500	
MC-Floor TopSpeed M	approx. 500	Large woven pile roller (Artikel-Nr. 3160PK)
MC-Floor TopSpeed flex	approx. 500	
MC-DUR 2496 CTP	approx. 500	
MC-DUR VS/VS-PUR	approx. 300	

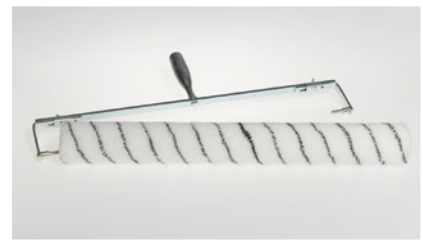
Top seal consumption depends among other things on the grade of strewing layer material, the viscosity of the sealant and the prevailing ambient conditions. In most cases, it is advisable to scrape the top seal over the underlayer with the rubber squeegee and then roll over it with the large woven pile roller.



Sealing of smooth substrates

Material	Consumption [g/m ²]	Tools
MC-DUR 111 D	approx. 250	Perlon pile roller (Article No. 3125PK) Large woven pile roller (Article No. 3160PK)
MC-DUR 122 M	approx. 250	
MC-Floor TopSpeed	approx. 250	
MC-Floor TopSpeed flex	approx. 250	
MC-DUR 2496 CTP	approx. 250	
MC-DUR 2095 ESD	approx. 200	
MC-DUR 2095 M	approx. 150	

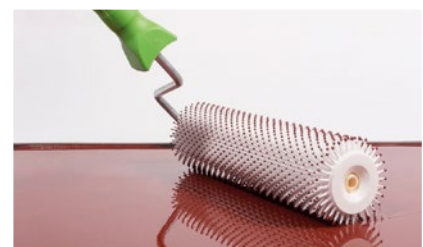
Sealant coatings should first be applied to smooth substrates with the short pile perlon roller and then equalised with the large woven pile roller in order to keep the roller traces as small as possible. Depending on the substrate material, it may be advisable to apply a second coating in order to achieve the necessary covering power.



Float coats

Material	Consumption [g/m ²]	Tools
MC-DUR 1200	approx. 1500	Serrated rubber spreader, 6 mm (Artikel-Nr. 59/59E06)
MC-DUR 1212 VB	approx. 1500	
MC-DUR 1252	approx. 1500	
MC-DUR 1322	approx. 1500	
MC-DUR rapid	approx. 1500	
MC-DUR 1800	approx. 2000	Serrated rubber spreader, 8 mm (Artikel-Nr. 59/59E08)
MC-DUR 1900	approx. 2000	
MC-DUR 1900 plus	approx. 2000	
MC-DUR 1850 ESD	approx. 2000	
MC-DUR 2052 AM/UVB	approx. 1500	Spiked deaerating roller (Artikel-Nr. 3875E)
MC-FLEX 2099	approx. 1100	
MC-FLEX 2099 AS	approx. 1100	
MC-FLEX 2099 FG	approx. 1500	
MC-DUR 2295	approx. 1700	

Float coats are applied in thicknesses of 1 – 3 mm. Depending on viscosity and temperature, a 6 mm serrated rubber spreader should ensure a consumption level of close below 1.5 kg/m². To increase the consumption to around 2 kg/m², we recommend the 8 mm serration. Subsequent to this operation, the material is deaerated with a spiked roller.



MC-Bauchemie Müller GmbH & Co. KG
Infrastructure, Industry & Buildings
Am Kruppwald 1-8
46238 Bottrop, Germany

Phone: +49 2041 101-190
Fax: +49 2041 101-188

IN@mc-bauchemie.com
www.mc-bauchemie.com



BE SURE. BUILD SURE.

Contact details:

