

System M4

KLB INDUSTRIAL PMMA RX Flame Resistant Outdoor

Flame retardant, rapid-setting, slightly slip-resistant PMMA coating for exterior areas

The **coating system M4** has been specifically developed to comply with requirements on rapid-setting coverings with increased slip-resistance, especially for outdoor areas. Depending on the project's requirements, a non-slip surface can be achieved in classes R11 to R12.

Its special composition makes the M4 coating system flame-retardant to fire class C_{fl}-s1. This guarantees maximum safety and compliance without compromising on performance.

The formulation with high-quality PMMA binding agents enables a very fast hardening of the individual system layers – with minimum installation time and still a superior quality.

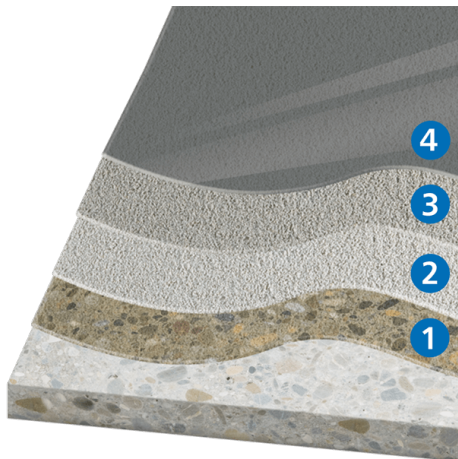
System M4 is ideally suited for those indoor or outdoor areas where rapid installation or renovation are required and special requirements are placed on the fire behaviour and slip-resistance of the flooring.

The coating system M4 complies with many requirements on rapid-setting coverings with increased slip-resistance, especially for outdoor areas. Depending on the application, a non-slip surface can be achieved in classes R11 to R12. The use of a special filling material makes this coating system flame retardant and tested in fire class C_{fl}-s1.

The use of PMMA binding agents means that the different layers harden very quickly. Installation time is reduced to a minimum, compared to conventional epoxy or polyurethane resin coatings.

This makes the system particularly suitable for all indoor and outdoor areas which must be renovated or reworked with a new coating in the shortest possible time and where there are special requirements in terms of fire behaviour and increased slip resistance.

Alternative systems: [System M2](#) as slip-resistant PMMA decorative coating without any requirements on fire behaviour, [System M3](#) as slip-resistant, flame retardant decorative coating.



4. Top sealer **KLB-SYSTEM ACRYL AC 826** (pigmented) and mixed sand **KLB-Mischsand 210**
3. Base layer with **KLB-SYSTEM ACRYL AC 313** (pigmented) and mixed sand **KLB-Mischsand 210**, scattered with quartz sand **KLB-Quarzsand 0.7/1.2 mm**
2. Scratch coat with **KLB-SYSTEM ACRYL AC 313** and mixed sand **KLB-Mischsand 210**
1. Primer **KLB-SYSTEM ACRYL AC 20**, openly scattered with quartz sand **KLB-Quarzsand 0.7/1.2 mm**



System build-up

Layer	See product information for more details
Total layer thickness	approx. 4 - 5 mm
Top sealer (4)	KLB-SYSTEM ACRYL AC 826 (pigmented) with mixed sand KLB-Mischsand 210
Base layer (3)	KLB-SYSTEM ACRYL AC 313 (pigmented) with mixed sand KLB-Mischsand 210, openly scattered with quartz sand KLKB-Quarzsand 0.7/1.2 mm
Scratch coat (2)	KLB-SYSTEM ACRYL AC 313 with mixed sand KLB-Mischsand 210
Primer (1)	KLB-SYSTEM ACRYL AC 20, openly scattered with quartz sand KLB-Quarzsand 0.7/1.2 mm
Substrate	Requirements to the substrate according to BEB worksheets and our primer list or by consultancy from our technical sales service/application technology. Pay attention to possible cross reactions with PMMA occuring in case of screeds treated with synthetic dispersions. We recommend carrying out a trial area in advance.

Area of application

External surfaces:

- Arcades

Special solutions:

- Rapid-setting coatings

Industry:

- Manufacturing and production
- Storage and logistics

Foodstuffs:

- Commercial kitchens
- Cold storage and deep-freezing rooms
- Wineries, Wine production

Agriculture:

- Milking parlours and milk rooms
- Animal husbandry and feeding tables

Technical data

Shore-hardness D (AC 826)	75	-	DIN 53505 (after 7 days)
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The values established in tests are average values. Deviations from the product specification may occur.



Tests and certifications

The following external test certificates are available for the system:

- Fire behaviour classification according to DIN EN 13501-01:2010-01: C_{fl}-s1
- Declaration of performance in accordance with Annex III to Regulation (EU) No. 305/2011 (Construction Products Regulation)
- Declaration of product conformity with Environmental Product Declarations (EPD)



Please consider the latest version of this system information on our website.

All stated information is based on our experience and technical preparation. We guarantee the correct and proper quality of our products. We do not assume any responsibility for the work not carried out by us, since we have no influence on the processing or processing conditions. We recommend on-site trials to be conducted. With appearance of this new KLB system information, all prior information loses validity. The updated version is available on our website www.klb-koetzta.com. In addition, our "General Terms and Conditions" apply.