
Description

2K-PU MyPlus Coat Mat (MCM) is a two part, water-based, transparent topcoat, based on high-grade non-yellowing polyurethane resins. The coating has a matt finish and is characterized by a very high surface hardness. This coating is renowned for its excellent durability.

The coating has a very low VOC content and is easy to apply with a nice smooth finish without leaving application marks. The cured coating has a very good stain and hot tyre resistance. The varying quality of rubber car tyres make it impossible to offer a full guarantee for hot tyre resistance. Ideal for storage halls, logistic areas and workshops.

Use 3% to 5% Stone Age "antislip KFU" to achieve a antiskid finish

One of the most outstanding properties of 2K-PU MyPlus Coat Mat (MCM) is that it retains its matt appearance even at an 85 degrees viewing angle.

Most matt coatings will turn silk-gloss or even shinier when viewed from this angle. This can be disturbing in large open areas

Properties

<u>Water-based</u>	
<u>Aliphatic, so UV stable</u>	
<u>Provided with UV absorbers, so slows the discoloration of underlying layers.</u>	
<u>Easy to clean</u>	
<u>Low VOC level in conformity with AgBB</u>	
<u>Viscosity ¹ (mPa.s)</u>	<u>1200- 1400</u>
<u>Density ² (g/cm³)</u>	<u>1.04</u>
<u>Potlife @ 20 °C</u>	<u>~ 30</u>
<u>Solid Content (%)</u>	<u>Ca. 38</u>
<u>Abrasion resistance ³ (mg)</u>	<u>12</u>
<u>Adhesive strength ⁴ (n/mm²)</u>	<u>>1.5 (Concrete fracture)</u>

¹= Brookfield, LV3, 30 RPM, @ 23 °c

²= ISO 2811-1 + 23 °C/50% R.H

³= Taber abrasion, CS10, 10N and 1000 cycles

⁴= EN 4624, 14 days/+ 23 °C/50% R.H

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Form

Component A: Liquid, milky

Component B: Liquid, clear

Application at different stages and combining different batch numbers in one project could result in slight matting differences, to avoid this:

Order all materials for your project at the same time

Packaging

Component A: 4.17 kg jerrycan

Component B: 0.83 kg bottle

Component A+B: 5KG set

Shelf life/storage

Up to 6 months from date of production if stored correctly in the original, unopened and undamaged sealed packaging and stored dry between +5 °C and +30 °C.

Mixing

Mixing ratio: Component A: Component B = 83.4 : 16.6 (parts by weight)

While mixing add part B to part A and mix continuously for 3 minutes until an uniform mixture has been achieved. Mix on a high shear so the two components can emulsify.

Let it pre-react for 10 minutes. To ensure thorough mixing and to prevent unmixed parts on the edge and/or bottom pour the materials through a sieve into a clean second container and mix again briefly.

If "antislip KFU" is needed, it is added at this stage and mixed for another 30 seconds.

Mixing is preferably done with a power mixer at high speed with a WK 90 mixer paddle

Topcoat: **2K-PU MyPlus Coat Mat (MCM)**

Extra topcoat: For extra wear resistance and extra UV protection, a second layer of 2K-PU MyPlus Coat Mat (MCM) is possible.

Substrate preparation

The substrate must be sound and of sufficient compressive strength (minimum 25 N / mm²), with a minimum pull-off strength of 1,5 N/mm².

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, previous coatings and surface treatments.

If the surface is older than 48 hours, always perform a preliminary adhesion test.

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Application conditions

Surface temperature: Minimum 10 °C, Maximum +25 °C

Ambient temperature: Minimum 10 °C, Maximum +25 °C

Relative air humidity: Maximum 70% R.H.

During hardening, humidity must not exceed 70% of the maximum RH and care must be taken to ensure that sufficient ventilation and fresh air can remove the excess moisture. If the air is saturated, the film **CANNOT** dry.

Dew point: Beware of condensation!

The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation or efflorescence on the floor finish.

Application conditions

Processing Time	40 minutes @ 10 °C 30 minutes @ 20 °C 20 minutes @ 30 °C
Touch dry @ 20 °C	2 hours
Foot traffic @ 20 °C	24 hours
Light traffic @ 20 °C	48 hours
Fully cured @ 20 °C	7 days

Check the R.H. and dew point before application.

Pour a small quantity of mixed material into a bucket and work the edges with a brush and a 10 cm microfiber roller. Do not work too far ahead to avoid drying and therefore caking.

Depending on the size of the application area, use either a 25 cm or preferably a 50 cm wide microfiber roller to apply the coating. Pour out a puddle and spread it from there.

Apply the coating quickly and evenly. Always work wet on wet.

While applying, try to keep draughts to a minimum. Keep windows and doors closed to avoid accelerated drying.

As soon as the coating has been applied and evenly spread (correctly), start ventilating to avoid saturating the air with water vapour. If there is no ventilation and the coating remains moist for too long, surface imperfections and insufficient coating film-formation may occur.

In spaces that are difficult to ventilate, for example bathrooms, extra ventilation must be introduced.

Make sure that no glossy patches are left behind, caused by absorption of the coating by the roller.

Work as quickly as possible and always within the pot life, which will depend on the temperature (20 min. at 30 °C – 40 min. at 10 °C).

Caution!: Approaching the end of pot life cannot be visually anticipated.

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Remarks

After application Stone Age 2K-PU MyPlus Coat Mat (MCM) must be protected from damp, condensation and water for at least 7 days (+20 °C).

Uneven or dirt covered substrates should not be treated with thin coatings. Both substrate and adjacent areas should always be thoroughly prepared and cleaned prior to application.

The incorrect assessment and treatment of cracks may lead to a reduced service life and recurrent cracking.

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters as they produce large quantities of both CO² and water vapour which may adversely affect the finish. Only use electrically powered warm air blower systems when heating is needed. Switch off underfloor heating during application and for the first 48 hours, after this period you may increase the temperature gradually.

2K-PU MyPlus Coat Mat (MCM) CANNOT be used on the Gietvloer PU UV or Gietvloer PU D30.

Cleaning/maintenance

To maintain the appearance of the floor after application, the floor system must be kept clean and all spillages removed immediately. The floor must be cleaned regularly using a rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc. Always use suitable detergents and waxes.

Clean the floor with tepid water. Never use hot water (warmer than 40 °C).

Value base

All technical data stated in this technical data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Health and safety information

For information and advice on how to safely handle, store and dispose of chemical products, users should refer to the most recent material safety data sheet containing physical, ecological, toxicological and other safety related data.

Legal notes

This information, and in particular the recommendations related to the application and end use of Stone Age products, is provided in good faith based on our current knowledge and experience of the products. It is valid for products that are correctly stored, treated and applied under normal conditions in accordance with Stone Age recommendations.

In practice, differences in materials, substrates and actual on-site conditions are such that no warranty in respect of merchantability or of suitability for a purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from

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another advice offered. The user of the products must test the products suitability for the intended application and purpose. Stone Age reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.

CE labelling

The harmonized European standard EN 13 813,, screed material and floor screeds – screeds – material properties and requirements” specifies requirements for screeds for use with floor constructions. Structural screeds or coatings, for example those contributing to the load bearing capacity of the construction, are excluded from this standard. Both synthetic resin floors and cement-bonded screeds are covered by these specifications. They must be CE-labelled according to Annex ZA. 3, Table ZA. 1.5 and 3.3 and comply with the requirements of the Construction Products Directive (89/106):

	
Stone Age B.V. Butaanstraat 10 7463 PG RIJSSEN The Netherlands	
13 ¹	
EN 13 813 SR-B1.5	
Primers/sealers	
Reaction to fire:	NPD ²
Release of corrosive substances: (Synthetic Resin Screed)	SR
Water permeability:	NPD
Abrasion resistance:	NPD
Adhesive strength:	B1.5
Impact resistance:	NPD
Noise insulation:	NPD
Noise absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

¹ The last two figures of the year in which the mark was awarded.

² No Performance Determined.

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