133

Technical Bulletin TM 133

Silk-Matte Aqua Paint 2K

Product description:
Water-based 2K silk-matte paint for areas subject to heavy mechanical and chemical loads, also in sensitive sectors. Proven resistance to disinfectants, very good cleanability. Environmentally compatible and free of isocyanates.

Application:
Indoors and outdoors. High-quality two-component topcoat for heavily used areas in refined private areas, public buildings, hospitals or in the hospitality sector. Can be universally used as a pigmented coat on viable old coatings, primed metal, tiles (not in wet cells) and plastic as well as non-ferrous metal, wood and mineral surfaces. As a clear varnish it can be used for scratch-resistant sealing of wood (steps) and as oxidation protection for non-ferrous metals (aluminium, copper, brass). Sealing surfaces in areas exposed to spray water.

Properties:
- excellent application properties, very good spreading rate
- withstands high chemical and mechanical loads
- can be used as paint or as clear varnish
- for scratch-resistant sealing of wooden surfaces
- transparent oxidation protection for non-ferrous metals
- for sealing surfaces in areas exposed to spray water
- suitable for children's toys (EN 71-3)
- saliva and sweatproof (DIN 53160)
- proven resistance to disinfectants
- long pot life > 6 hrs., also fully hardened quickly
- very colour and weather-resistant
- wide range of colours via MEGA Pearls tinting technology
- simple 10:1 mixing ratio based on volume or weight
- free from diisocyanates, no label and training required

Binding agent basis:
Component A:
Acrylic dispersion, acrylic polyurethane dispersions
Component B:
Carbodiimide

Spec. weight:
1.0 - 1.2 kg/l

Gloss level:
Medium gloss; 60° approx. 12 GU/85° approx. 25 GU

Packaging size:
Component A: 750 ml and 2.5 l
Component B: 75 ml and 250 ml

Shade of colour:
White, transparent and a wide range of colours using the Mega Mix paint mix service

Processing

Material preparation:
Only add the hardener to the base at the indicated mixing ratio. The required intensive mixing is best conducted using a slow running mixer (max. 400 rpm). After mixing, pour into a clean container and stir once more. The pot life begins right after mixing. Do not bring freshly mixed material together with remaining quantities.

Mixing ratio:
Component A: Component B 10:1 based on volume or weight

Application:
Paint, roll and sprayer. Only use with tools that are not rusting.

Pot life:
Approx. 6 hrs at 20 °C.
Higher temperatures shorten the pot life. It is not possible to see when the pot life has elapsed, the mixed material must not be used after this time has passed.

Base surface preparation:
The surfaces must be free of dirt, separating substances and dry. Please observe the VOB, Part C, DIN 18 363, sec. 3. Furthermore, the BFS Bulletins of the Federal Committee for Paint and the Protection of Property, Frankfurt on the Main must be observed. Smoothed surfaces must be completely dry. Clean and sandpaper tightly adhering coats of paint well. Remove loose coats of paint. Intermediate sanding with abrasive web, pads or fine sandpaper is required between coats.

Wood surfaces:
Sand and clean uncoated wood thoroughly. Priming coat with MEGA 050 Aqua Paint Undercoat or MEGAgreen 133 Silk-Matte Aqua Paint 2K. If using MEGAgreen 133 Silk-Matte Aqua Paint 2K directly on highly absorbent surfaces, the priming coat should be diluted by up to 20%.

Aluminium, copper, brass:
MEGAgreen 133 Silk-Matte Aqua Paint 2K as a clear varnish (base 0000) can be directly applied to non-ferrous metals after specialist cleaning has taken place to protect it from oxidation.

Zinc and rigid PVC:
Use MEGA 052 Aqua Paint Epoxy Primer 2K or 051/055 Aqua Paint Primer as a primer after specialist cleaning or base surface preparation, depending on the expected wear.

Ceramic wall tiles (not in wet cells):
Use MEGA 052 Aqua Paint Epoxy Primer 2K as a primer after specialist cleaning or base surface preparation.

Viable old coats:
Clean and sand down thoroughly. If necessary, prime with MEGA 051/055 Aqua Paint Primer. Apply 1 - 2 undiluted coats of MEGAgreen 133 Silk-Matte Aqua Paint 2K for the clear sealing of dispersion paints. Before working on larger areas, try it out on a test area first.

Note:
Any priming that has taken place should be reworked after a drying time of 24 hours, using MEGAgreen 133 Silk-Matte Aqua Paint 2K; if reworking takes place too quickly then cracks may appear and there could be issues with spreading. It is recommended to try this on a test area beforehand if applying to mineral surfaces as high alkalinity may result in issues with film formation.

Technical specifications

Dilution:
This product is ready for use. If necessary, use clean water (drinking water quality).

Cleaning the tools:
Clean immediately after use using water and soap.

Drying process:
At 20 °C and 50 % rel. humidity, 100 µm wet layer thickness:
Dust dry and tack-free: after approx. 1 h
Can be reworked: after approx. 10 h
Thicker layers and/or lower temperatures slow down drying times. Full mechanical and chemical load-bearing capacity is reached after 14 days. MEGAgreen 133 Silk-Matte Aqua Paint 2K can be manually sanded with a sanding pad after 16 hours. We recommend a drying time of approx. 36 hours before mechanical sanding on larger areas.

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Silk-Matte Aqua Paint 2K

Consumption:
finished compound: approx. 100 - 120 ml/m²

Spray application:

Process	Nozzle	Material pressure/quantity	Air Pressure in bar	Dil-ution
High pressure	2.0 mm	-	2.0	5 - 10%
Low pressure	medium	approx. ¾	max.	5 - 10 %
Airless (20 °C)	0.008”-0.012“	150-180 bar	-	undil.
Airless (60 °C)		0.008”-0.012“	100-120 bar	
-	undil.			
Airmix	0.008”-0.012“	100-120 bar	1.0-2.0	undil.

General information

Processing temperature:
Temperature and humidity affect the drying and spreading of water-based paints. Optimal processing temperature 10 - 25 ° C (approx. 60 % rel. humidity). The drying process is delayed with lower temperatures and high humidity. High temperatures and very low humidity shorten the open time.

Storage:
Can be stored in the sealed original container in dry, cool and frost-free conditions for at least 12 months.

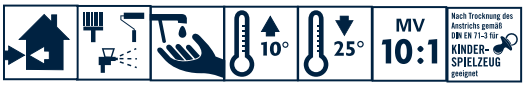
Composition according to VDL Guideline:
Component A:
Acrylic dispersions, acrylic polyurethane dispersions, inorganic white pigments (depending on shade of colour, inorganic and/or organic pigments), water, glycol ether, neutralizers, anti-foaming agents, surfactants, polyurethane thickeners, amorphous silicic acids, interfacial additives, storage protection based on benziso-thiazolinones
Component B:
Carbodiimide

Information on disposal:
Only give fully empty containers to recycling. Dispose of it in accordance with legal regulations.

EU threshold value for this product:
Product category: A/d
130 g/l VOC (2010)
This product contains a max. of 130 g/l VOC.

GISCODE:
Components A and B: BSW30

Observe the safety data sheet!



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