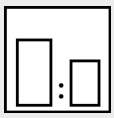
VC 555-20 Single-layer Mica Coat matt

Intended use

Thixotropic, high-build single-layer black mica coating designed for brush, roller and spray applications according to the former TL 918 300, sheet 77. It is suitable to coat constructions (halls, pipes, doors, wall and ceiling panels, roofs, containers, vehicles) which are made of steel, zinced steel, aluminium and PVC. For interior and exterior use. Also suitable to coat mineral substrates (concrete, screed, and so on).

Processing instructions



Mixing ratio

hardener	by weight (lacquer : hardener)	by volume (lacquer : hardener)
--	--	--

Hardener

--

Pot life

--

Thinner

Mipa UN-Verdünnung

Mipa Verdünnung UN 21

Processing viscosity

Ready for use, if necessary thin with ipa UN-Verdünnung or Verdünnung UN 21.

gravity spray gun	Airmix/Airless
--	--

Application mode

application mode	hardener	pressure (bar)	nozzle (mm)	spray passes	dilution
brushing, rolling	--	--	--	--	0 %

Drying time

hardener	object temperature	dust dry	set to touch	ready for assembly	sandable	recoatable
--	20 °C	25 - 30 min	4 - 5 h	8 - 10 h	--	--
--	60 °C	--	30 min	30 min	--	--

Fully cured after 8 - 10 days (at 20 °C).

Note

Characteristics:		
	binder base:	vinyl copolymer
	solids content (% by weight):	~ 69
	solids content (% by volume):	~ 45
	delivery viscosity DIN 53211 4 mm (in s):	thixotropic
	density DIN EN ISO 2811 (kg/l):	~ 1,6
	gloss level ISO 2813 at 60° (GU):	matt*

MIPA SE · Am Oberen Moos 1 · D-84051 Essenbach · Tel.: +49 8703 92 20 · Fax: +49 8703 92 21 00 · mipa@mipa-paints.com · www.mipa-paints.com

Properties:

good edge coverage
electrostatic application possible
highly UV- and weather-resistant
very good water resistance
heat resistance:
- short-term heat exposure: 90 °C
- permanent heat exposure: 70 °C

adhesion on steel, zinced substrates, aluminium, hard PVC and concrete

Theoretical spreading rate:

~ 30,4 m²/kg for 10 µm dry film thickness
~ 44,5m²/l for 10 µm dry film thickness

Storage:

For at least 3 years in the unopened original container. Optimum storage conditions between + 5 °C and + 25 °C, avoid direct sunlight. Other storage conditions may lead to undesirable properties of the material.

VOC:

< 500 g/l.

Processing conditions:

From + 10 °C and up to 80 % relative humidity. Ensure adequate air ventilation.

Substrate preparation:

Remove oil, grease, rust, mill scale, rolling skins, as well as other substances impairing the function of the coating!!

Attention: A direct adhesion cannot be taken as granted due to most different kinds of metals, alloys, metallic and conversion coatings and so on. The adhesion must therefore be tested on the original metal substrate.

steel:
- blast to cleaning degree Sa 2½, remove blast residues and overcoat promptly
- de-rust with hand and power tools to degree of cleanliness St 3
- degrease with Mipa WBS Reiniger or Mipa Silikonentferner

zinced substrates:
- clean the surface with the ammonia solution Mipa Zinkreiniger
- sweep blast

aluminium:
- degrease with Mipa 2K-Verdünnung, sand thoroughly with sandpaper P 360/400 and clean subsequently with Mipa Silikonentferner

hard PVC:
- clean (remove completely any mould release agents), degrease with Mipa Kunststoffreiniger, sand slightly and degrease again with Mipa Kunststoffreiniger

mineral substrates:
- mineral substrates (set, dimensionally stable, rough and solid) must be free from friable parts and other substances that may affect the adhesion (e.g. rubber marks, greases, oils, rust, dust and similar).

MIPA SE · Am Oberen Moos 1 · D-84051 Essenbach · Tel.: +49 8703 92 20 · Fax: +49 8703 92 21 00 · mipa@mipa-paints.com · www.mipa-paints.com

Proposed coating structure:

single-coat system
steel, zinced substrates, aluminium:
VC 555-20 with 200 - 240 µm dry film thickness

PVC:
VC 555-20 with 80 - 120 µm dry film thickness

2-coat system
steel, zinced substrates:
priming coat: **VB 100-20 at least 20 - 30 µm or EP 100-20 with 50 - 70 µm dry film thickness
finishing coat: VC 555-20 with 200 - 240 µm dry film thickness

aluminium:
priming coat: **VB 100-20 at least 20 - 30 µm or EP 100-20 with 25 - 30 µm dry film thickness
finishing coat: VC 555-20 with 200 - 240 µm dry film thickness

concrete/ mineral substrates:
priming coat: Tiefgrund LH (exterior use) or Tiefgrund LF (interior use)
finishing coat: VC 555-20 with 80 - 120 µm dry film thickness

Special notes:

*Due to the special surface, a measurement according to DIN EN ISO 2813 is inappropriate!

**Further Mipa primers are available. Please contact your technical adviser or our application technicians.

For professional use only.

The details of the paragraphs - Proposed coating structure, Characteristics, Theoretical spreading rate, VOC - refer to the colour shade DB 701. For other colour shades, these may deviate.

Due to the system, strong exposure to UV and weathering may cause chalking. In addition, the thermoplastic behaviour of the coating must be observed at higher temperatures.

Check colour before application.

In order to achieve optimum iron mica effects and to avoid strips, it is advisable to spray the finishing coat or to roll or paint in only one direction.

Cleaning of tools:

Clean tools immediately after use with Mipa Nitroverdünnung.

MIPA SE · Am Oberen Moos 1 · D-84051 Essenbach · Tel.: +49 8703 92 20 · Fax: +49 8703 92 21 00 · mipa@mipa-paints.com · www.mipa-paints.com