



# TECHNICAL DATA SHEET

## AMERIN® CC-02 Water-based indoor varnish for concrete

**1. Description:** AMERIN® CC-02 is a hard, transparent, thin varnish of good abrasion and scratch resistance for coating of indoor concrete surfaces exposed to small or medium stress. It can be also used for walls, some plastics and wood surfaces too.

Available in glossy (AMERIN® CC-02G) and matt (AMERIN® CC-02M) version too.

### 2. Characteristics:

- 1 component
- water-based
- fast drying
- hard, matt, transparent coating
- good abrasion and scratch resistance
- only for thin coatings
- makes concrete surface dust-free, watertight and resistant to oils
- coating follows the surface of the concrete, does not change its smoothness
- environmentally-friendly

**ATTENTION! Risk of freezing!**

### Technical data:

FEATURES	VALUES		UNITS	NORMS
	Amerin CC-02M	Amerin CC-02G		
Description	modified, water-based acrylic dispersion			
Appearance	opalescent liquid		-	HSZ 003
Density at 25°C	1,03 - 1,09	1,00 - 1,05	g/cm <sup>3</sup>	HSZ 004 (ISO 1675)
Flow-out time at 25 °C, DIN 3	80 - 120	35 - 50	sec	HSZ 006 (ISO 535)
Soild content	30 ± 1		%	ASTM D2369
Flash point, closed cup	>150		°C	ASTM D93
Minimum curing temperature	+ 10		°C	-
Suggested application temperature	+15 - + 25		°C	-
Set-to-touch time at 25 °C (1. grade)	5 - 10		min.	Bandow-Wolff method
Dry-to-touch time at 25 °C (4. grade)	4 - 5		hours	Bandow-Wolff method
Overcoating time at 20 °C	12 - 24		hours	-
Resistant to foot traffic at 20 °C	24		hours	-
Time of full hardening at 20°C	7		days	-
Storage conditions	in a dry place far away from direct heat, in tightly closed containers at 5-25°C			
Self life	12		month	-
Packaging*	2 and 18-kg plastic can		kg	-
Flammability	IV. (not flammable)		class	-



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\*on request other packaging is also available

## **Requirements concerning substrate:**

The concrete must be at least C-16 (B-200) quality, dry, smooth, and free of loose material and contaminations, such as dust, paint, grease, oil etc. The non-porous surface must be also dry and free of loose material and contaminations, such as dust, paint, grease, oil etc.

## **Preparation of the substrate:**

Can be done by milling, grinding or high pressure water jet cleaning. Finally, high performance vacuum cleaner should be used to removing of dust.

## **Application instruction:**

The AMERIN® CC-02 G should be applied in two layers onto concrete surfaces in dry circumstances! The first layer should be thinned with water 1 by 1. The second coating should be applied itself 12-24 hours after the first layer. A short haired Teddy-roller or brush are suggested for the application.

**Attention! The temperature of the varnish and the surface must stay above 10 °C!** Otherwise the coating will not be water-proof even in 3 layers.

## **For impregnation and dedusting of concrete:**

Average consumption all together: appr. 0,25 kg/m<sup>2</sup>

- First layer: appr. 0,1 kg/m<sup>2</sup> Amerin CC-02 + 0,1 kg/m<sup>2</sup> water
- Second layer: appr. 0,15 kg/m<sup>2</sup> (without dilution)

## **For making water-proof coating on concrete:**

Average consumption all together: appr. 0,40 kg/m<sup>2</sup>

- First layer: appr. 0,1 kg/m<sup>2</sup> Amerin CC-02 + 0,1 kg/m<sup>2</sup> water
- Second layer: appr. 0,15 kg/m<sup>2</sup> (without dilution)
- Third layer: appr. 0,15 kg/m<sup>2</sup> (without dilution)

## **Average consumption on non-porous surface:**

**All together:** 0,15 kg/m<sup>2</sup>

- First layer: appr. 0,08 kg/m<sup>2</sup> + 0,08 kg/m<sup>2</sup> water.
- Second layer: appr. 0,07 kg/m<sup>2</sup>

## **Diluting and cleaning:**

For diluting and removing of material before drying tapwater should be used. Hardened material can be removed only mechanically.

## **Labour safety information:**

- **During work:** Closed working-clothes, safety glasses and gloves have to be worn.
- **Skinprotection:** A skin-protective cream has to be applied on hands before starting work.
- **Removing the material from the skin:** The material has to be absorbed with a dry clothes or paper and the skin has to be washed with soapy warm water and dried, then creamed with a protective cream afterwards. The dirty paper or clothes used for absorption should be disposed to a plastic container or sack.



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- **Ventilation:** Give adequate ventilation to the premises where the product is stored and/or handled. Workers should avoid breathing in the vapours.
- **First-aid:** In case the material gets to the eyes, they should be rinsed thoroughly with water for 15 minutes and the worker should see a doctor as soon as possible. From skin the material should be removed as above.

Contaminated clothes should be taken off immediately. In case somebody feels unwell after breathing in vapours he has to be taken on open air and see a doctor as soon as possible.

**Labour safety and environmental information is detailed in the „Safety data sheet” of the product.**

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Information contained in this data sheet has been collected on the basis of our best engineering knowledge, however, it is not intended to provide any legal commitment.

AMERIN® CC-02 ENG 2. .

April, 2018.