

Sealing coat, covering, satin matt

Function	Good carbon dioxide impermeability (sd-value CO ₂ > 50 m) Good water vapour diffusion permeability (sd-value H ₂ O < 4 m) Highly protective effect against frost/thaw salt stress.			
Optics	Satin matt Available in the colours of the LAMACO Color System			
Application	Manual or airless sprayable			
Uses	For exterior and interior use Coating for concrete and reinforced concrete The product is component of the LAMACO SYSTEM corresponding to the DAfStb guidelines 2001-10 (renovation guidelines for surface protection systems): OS 2 (OS B) and OS 4 (OS C)			
Restrictions	Not for surfaces subject to pedestrian or vehicle traffic.			
Product group	Sealing coat			
Data	Criterion	Norm/Test prescript	Value	Units
	Density (at 23 °C)	EN ISO 2811-2	1.35	g/ml ⁽¹⁾
	Non-volatile content (solids)	VIQP 033 / VILS 001 (LAMACO internal standard)	60	M-%
	Viscosity (at 23°C)	DIN 53 018-1	1360	mPa·s
	Water vapour diffusion: μ-value	DIN EN ISO 7783-2 ⁽²⁾	1200 ⁽³⁾	-
	Carbon dioxide diffusion: μ-value	TP OS	1840000	-
	⁽¹⁾ g/ml = g/cm ³ = kg/dm ³ = kg/l ⁽²⁾ In deviation from the norm, samples were dried at 23 °C ⁽³⁾ class III - low The values stated are average values. Due to the use of natural raw materials in our products, the actual value determined on an individual delivery may deviate slightly, without compromising product suitability.			
Certificates / Norms / Approvals	Report 1866/99-47	Surface protection system, class OS 2 (OS B): P LAMACO B.1 General test certificate for building construction materials		
	Report 1866/99-48	Surface protection system, class OS 2 (OS B): P LAMACO B.2 General test certificate for building construction materials		
	Report 1866/99-49	Surface protection system, class OS 4 (OS C): P LAMACO C.1 General test certificate for building construction materials		
	Report 3599/04-234	Surface protection system, class OS 4 (OS C): P LAMACO C.2 General test certificate for building construction materials		
	Report 5027/07-326	Surface protection system, class OS 4 (OS C): P LAMACO C.3 General test certificate for building construction materials		

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Substrate	<p>Requirements on concrete substrates:</p> <p>The substrate must be dry, load bearing and free of homogeneous or foreign substances with a separating effect. Less firm layers and mud accumulations should be removed.</p> <p>Dry in accordance with the DAfStb guidelines 2001-10 definition, but dependent on concrete quality. Remainder moisture max. 4 % by weight with concrete qualities to C30/37 (B35) and max. 3 % with a concrete C35/45 (B45), measured with the CM device.</p>		
Substrate preparation	<p>Concrete substrates: The substrate should be prepared by suitable mechanical measures such as e.g. blasting with solid blasting agents, or high pressure water blasting (> 800 bars). Pores and blowholes should be opened adequately.</p>		
Application temperature	<p>Minimum application and substrate temperature + 8 °C Maximum temperature + 30 °C</p>		
Coating procedure	<p>Renovation guideline system OS 2 (OS B)</p> <ol style="list-style-type: none"> 1.) Substrate preparation 2.) Hydrophobic primer 3.) Intermediate coat Gem Coat CP 100 diluted with 5% by weight water 4.) Finish sealing coat Gem Coat CP 100 undiluted <p>Renovation guideline system OS 2 (OS B)</p> <ol style="list-style-type: none"> 1.) Substrate preparation 2.) Hydrophobic primer 3.) Intermediate coat Gem Coat CP 100 diluted with 5% by weight water 4.) Finish sealing coat Gem Coat CP 100 undiluted <p>Renovation guideline system OS 4 (OS C)</p> <ol style="list-style-type: none"> 1.) Substrate preparation 2.) Fine leveller 3.) Intermediate coat Gem Coat CP 100 diluted with 5% by weight water 4.) Finish sealing coat Gem Coat CP 100 undiluted 		
Mixing procedure	<p>Ready for application; mix up thoroughly before use.</p>		
Consumption	Article	Type of application	Consumption approx.
	Gem Coat CP 100	Per coat	0.15 l/m ²
<p>Precise consumption figures should be determined on the object.</p>			
Application	<p>I. Surface protection system OS 2 (OS B):</p> <ol style="list-style-type: none"> 1. <u>Substrate preparation</u> 2. <u>Hydrophobic primer</u>: The hydrophobicity of the prepared concrete substrate, depending on absorbency of the substrate, is carried out using brush or roller. Consumption: 0.20 – 0.25 l/m² per coat (diluted material) 3. <u>Intermediate coating</u>: Gem Coat CP 100 After thorough mixing, the intermediate coating Gem Coat CP 100 is diluted with up to 5 % water, mixed up again thoroughly, and applied manually or by machine. Consumption: approx. 0.15 l/m² 4. <u>Finish coating</u>: Gem Coat CP 100 The finish coating applied undiluted after thorough mixing Consumption: approx. 0.15 l/m². To achieve min p = 104 µm, a material consumption of minimum 0.34 l/m² in two coats is necessary. 		

Application (cont.)	<p>II. Surface protection system OS 2 (OS B):</p> <ol style="list-style-type: none"> 1. <u>Substrate preparation</u> 2. <u>Hydrophobic primer:</u> The hydrophobicity of the prepared concrete substrate depending on absorbency of the substrate, is carried out by brush or roller. Consumption: 0.20 – 0.25 l/m² per coat 3. <u>Intermediate coating: Gem Coat CP 100</u> After thorough mixing, the intermediate coating Gem Coat CP 100 is diluted with up to 5 % water, mixed up again thoroughly, and applied manually or by machine. Consumption: approx. 0.15 l/m² 4. <u>Finish coating: Gem Coat CP 100</u> The finish coating Gem Coat CP 100 is applied undiluted after thorough mixing Consumption: approx. 0.15 l/m² To achieve min p = 104 µm, a material consumption of minimum 0.34 l/m² in two coats is necessary. <p>IV. Surface protection system OS 4 (OS C):</p> <ol style="list-style-type: none"> 1. <u>Substrate preparation</u> 2. <u>Fine leveller:</u> The fine leveller coat is carried out according to the relevant Technical Data Sheets. 3. <u>Intermediate coating: Gem Coat CP 100</u> After thorough mixing, the intermediate coating Gem Coat CP 100 is diluted with up to 5 % water, mixed up again thoroughly, and applied manually or by machine. Consumption: approx. 0.15 l/m² 4. <u>Finish coating: Gem Coat CP 100</u> The finish coating Gem Coat CP 100 is applied undiluted after thorough mixing Consumption: approx. 0.15 l/m² To achieve min p = 104 µm, a material consumption of minimum 0.34 l/m² in two coats is necessary. <p>Manual application : By brush or roller.</p> <p>Machine application</p> <p><u>Airless:</u></p> <ul style="list-style-type: none"> - Nozzle size 0.019 - 0.021 inch (0.49 – 0.53 mm) - Spray angle 40° - 50° - Pressure 140 – 180 bars (hose length 15 m, max. up to 100 m – roller device up to 140 m) - Water added up to max. 5 % - Remark: when supplied in large containers, no water addition is required (ready for application). <p><u>Inomat M 8:</u></p> <ul style="list-style-type: none"> - Hose size – Ø ¾ " - Device setting level 4 (with 10 m hose max. hose length 100 m) - Remark: application took place undiluted with a paint roller device.
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Application (cont.)	<p>Hardening and waiting times</p> <ul style="list-style-type: none"> - until rain and wetness insensitivity At 8 °C after 6 hours At 20 °C after 4 hours At 30 °C after 2 hours - until application of the following layer At 8 °C after 24 hours At 20 °C after 12 hours At 30 °C after 5 hours - until testing of tear-off strength At 8 °C after 7 days At 20 °C after 5 days At 30 °C after 3 days
Cleaning of tools	Clean immediately with water; bound material can only be removed mechanically.
Product name	Gem Coat CP 100
Packaging	<p>Gem Coat CP 100 white, pail (PE) 15 ltr</p> <p>Gem Coat CP 100 tinted, pail (PE) 15 ltr</p> <p>LAMACO large containers (not available in all countries).</p>
Colour	Available in white and tinted to the colours of the LAMACO Color System
Finish	Satin matt
Storage conditions	Store tightly sealed in frost-free conditions. Do not expose to direct sunlight.
Storage life	In unopened original containers, product can be stored for 15 months. (Relevant data: refer to packaging).
Disposal	Waste has to be disposed considering the local, official regulations. Material into drains to arrive do not leave. Waste key in accordance with the European Waste Catalogue: 08 01 12.
Safety	For further information on handling, storage and disposal of the product, please refer to the current EU Material Safety Data Sheet, available on request for professional users. (Relevant data).
GISBAU-code	M-DF02F
CE-Marking	CE Marking acc. EN 1504-2 Gem Coat CP 100 EC Declaration of conformity acc. EN 1504-2 Gem Coat CP 100
Revision No.	Gem Coat CP 100 /INT/EN/028
Validity	<p>27.06.2009</p> <p>The information and data serve to ensure the normal application purpose and normal application suitability.</p> <p>Uses not specifically discussed in this Technical Data Sheet may only take place after consultation with LAMACO.</p>

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Health & Safety Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from **LAMACO Malaysia** on request and sent with each delivery.



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