



ALUCO

FLOORING DIVISION

- POLYURETHANE**
- EPOXY RESIN**
- COATING**
- CONCRETE**
- WOOD**

ALUCO GROUP

ข้อเปรียบเทียบระหว่างสารเคลือบพื้นผิว

ชนิด Chemical กับ Alucoat

Chemical	Alucoat
1. ใช้เปลวไฟฟ้าเผาพื้นก่อนเคลือบ เป็นสาเหตุพื้นปูที่สภาพดีเสื่อมอย่างรวดเร็ว 2. ต้องปิดเครื่องทำความเย็นก่อนเคลือบ 3. มีกลิ่นเหม็นเคมีเป็นระยะเวลานาน และมีกลิ่นตกค้าง 4. ไม่สามารถเคลือบกับพื้นผิวที่มีความชื้น ไม่เหมาะกับโรงงานที่มีความชื้นสูง 5. หากมีการรั่วซึมแม้แต่จุดเดียว จะเกิดการร่อนหลุดลุกลามเป็นวงกว้างรวดเร็ว 6. ลื่นไหลขณะมีคราบน้ำมันจากอาหาร เป็นผลให้เกิดอุบัติเหตุ ในโรงงานได้ง่าย 7. การซ่อม ใช้เวลามาก 8. ลักษณะพื้นเป็นคลื่น ๆ กักเก็บเชื้อโรคได้ดี 9. ระบบการปรับระดับและเคลือบผิวไม่สามารถเสร็จได้ภายใน 1 วัน 10. รับประกันสูงสุด 5 ปี	1. เคลือบได้เลย 2. สามารถเคลือบผิวในอุณหภูมิ - 40 C และใช้งานใน 30 นาที 3. ไม่มีกลิ่นรบกวน และไม่ตกค้าง 4. เข้ากับความชื้นได้ดี 5. ไม่มีปัญหารั่วซึม 6. ไม่ลื่นไหลขณะมีคราบน้ำมันจากอาหาร 7. ไม่ต้องซ่อม 8. ลักษณะพื้นผิวค่อนข้างเรียบและเป็นมันสวยงามถูกสุขอนามัยผ่านการตรวจมาตรฐาน FDA 9. ระบบการปรับระดับและเคลือบผิวทุกขั้นตอนสามารถเสร็จภายใน 1 วัน 10. รับประกันสูงสุด 12 ปี

ALUCO GROUP

ตารางเปรียบเทียบ

ตารางเปรียบเทียบ	ปูนสำหรับห้องเย็นใน ท้องตลาด	Alucoat
1. ระยะเวลาแห้ง	ช้า	เร็ว
2. STRENGHT	ต่ำกว่า 450 ksc ใน 14 วัน	สูงถึง 900 ksc ใน 9 วัน
3. ผิวหน้า	ขรุขระ ไม่เรียบ เป็นที่กักเก็บ เชื้อโรค	เรียบและเป็นมัน ถูกสุขอนามัย
4. สี	สีไม่สด ดูหมองคล้ำ ไม่สะอาด	สีสดใส ดูสะอาด
5. ขณะปฏิบัติการ	ต้องปิดเครื่องทำความเย็น	สามารถเปิดเครื่องทำความเย็น ได้ ภายได้ -18 C
6. การผสมสี	ได้น้อย	ได้มาก
7. การรับน้ำหนัก	ประมาณ 60,000 กก.	ประมาณ 160,000 กก.
8. การประกัน	-	สูงสุดถึง 12 ปี



Alucoat[®]

World Class Quality

HYGIENIC SEAMLESS FLOOR SYSTEMS



Alucoat®

Alucoat is a seamless self-leveling polymers cementitious compound. During the past years Alucoat has become the state-of-the-art overlay flooring all over the world. The popularity is due to the fact, that Alucoat is hardwearing, and resistant to a wide range of chemicals, thanks to the unique character-

istic of the cementitious binder. Alucoat flooring can be made in as many attractive colours as you require. Surface textures range from smooth to slip resistant. Alucoat is laid in large seamless areas without any risk of cracking or spalling. Special designs can be applied according to the individual company's

wishes for special effects like built-in names and logos.

Curing time 5 hour. One of the most important features by Alucoat is the short curing time. After one hour the floor can withstand maximum wear. Alucoat can be applied in thin layers as well as thick corresponding to

the wear and traffic on site. Alucoat flooring is recognised by thousands of end-users, architects and consulting engineers to solve flooring problems for a wide range of industries within sectors of f.inst. food processing, health, shipping, energy, electronics, printing and transportation.

Alucoat Bridge

Used in internal and external environments, which are exposed to extreme industrial loads. Therefore used on road bridges, loading ramps, loading areas, decks of ships, car-park floors, indoors in exceptionally tough industrial environments, or in other places where an extremely durable and impact-resistant floor surface is required. Thickness: 8-12 mm.

Alucoat Industry

Used in areas exposed to heavy industrial loads such as truck areas and loading areas for example, main kitchen slaughterhouses, dairies, fish, chicken and other food processing plants and in the pharmaceutical and chemical industries. Thickness: 8-12 mm.

Alucoat Standard

Used in areas where there is moderate industrial loading

such as bakeries, large kitchens, breweries and other general production areas with normal loads. Thickness: 8-12 mm.

Alucoat Design

Used in areas where easy cleaning and dust free surfaces are required, such as exhibition areas, laboratories, canteens, pedestrian areas and bathing and changing areas. Thickness: 8-12 mm.

Alucoat Topfloor

Used in areas where dust protection and durability are prioritised, such as works-hops, storage areas etc. Also used in the refurbishment of older Alucoat coverings. Thickness: 8-12 mm.

Alucoat Topcoat

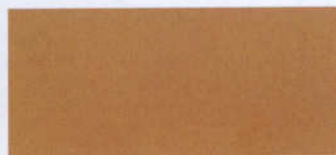
Used in areas, which must be dust free and easy to clean, such as warehouses and archives. Thickness: 8-12 mm.



Colour



Tomato Red 710



Brown Beige 711



Sand Yellow 712



Pale Green 713



Light Grey 714



Leaf Green 715



Natural Grey 716



Dark Green 717

Alucoat Laboratory



ALUCOAT LABORATORY



SMOOTH OR NON-SLIP



HYGIENIC



RESISTANT TO CHEMICALS



WITHSTANDS HEAVY LOADS



EXTREMELY HARD-WEARING



COMPLETE WATERTIGHT



HEAT RESISTANT



READY IN NO TIME - TO LAST A LIFETIME

Alucoat - the company and the products

For more than 2 decades Aluco has been the leader in the development of modern seamless floorings. Aluco products are today the keyword for companies, which never compromises, when it comes to choosing quality. Based on a detailed site drawing, we specify the seamless floor systems, that solves each individual need. Most of our solutions differs - because floors are different according to the purpose of them.

Aluco initiated the seamless flooring process all over America and Europe in the very beginning of eighty.

Along with the fulfillment of the numerous tasks

During the past years Aluco paralleled the succes by research, constantly adding new inventions to the technique.

This means, that the customers today always will have - not only an apt solution at hand - but the right solution, regardless of conditions.

The various brands available allows for the best and most economical solution to be performed.

As adhesion to the basic foundation is of great importance for the lifetime durability, Aluco recently added another product to the trange - the Products.

The newcomer adds the perfect foundation conditions to the floor, and also serve as durable topfloor in unheated storage buildings.

HYGIENIC SEAMLESS FLOOR SYSTEMS



World Class Quality

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Made in Germany



World Class Quality

Data sheet

ALUCOAT S 10

A Thin Flooring with High Strength

Alucoat S 10 is a lightweight and thin flooring and the strongest of all Alucoat products. It is used in areas with high wear and point loadings or where there are particular requirements for flatness and impermeability.

Technical data

The properties depend upon curing temperature. The data given are typical for curing at 25°C within 6-8 hours.

*Impact strength can be improved by adding steel fibres.
Slip resistance can be improved by sand saturation of the surface.*

For further information, please refer to the TECHNICAL INFORMATION section of the Alucoat catalogue.

Alucoat S 10 consists of a high-strength cement-based dry mortar that mixes with water to a free-flowing mortar.

Alucoat S 10 is applied as 4-6,6-8, 8-12,12-25 mm deep layer onto new or existing base concrete. Various colours are available.

SPECIFICATION

The base concrete is prepared by planing, scabbling, water saturation

The Alucoat S 10 dry mortar is mixed with water in a batch mixer.

The mortar is laid and vibrated as a certain thickness deep using guide

The surface is spike-rolled.

Finally, the surface is sealed with Alucoat Curing Compound or by sand saturation with e.g. Alucoat.

PROPERTY	Standard	Value	1 day	7 days	28 days
Compressive strength (MPa)	EN 12190		70	120	165
Flexural strength (MPa)	EN 196		12	18	24
Wear resistance (cm ³ /50 cm ²)	DIN 52108	4-5			
Freeze-thaw resistance	SS 137244	Very good			
Impermeability	DIN 1048	Water penetration < 1 mm			
Coefficient of expansion	EN 1770	$\alpha_m = 9 \cdot 10^{-6}/^{\circ}\text{C}$			
Electrical conductivity (&m)	Force method	10 _s dry 10 _w wet			
Setting time (hours)	EN 196-3	5-7			
Density (kg/m ³)	EN 12190	2650			



World Class Quality

Data sheet

ALUCOAT S 15

High Wear and Impact Resistance

Alucoat S 15 is a flooring with high wear and impact resistance that can be used in most areas exposed to wear and impact. The flooring can be laid to good level even where the base concrete is somewhat uneven.

Technical data

The properties depend upon curing temperature. The data given are typical for curing at 18°C within 6-8 hours.

Impact strength can be improved by adding steel fibres, and wear resistance and compressive strength can be improved by incorporating bauxite.

Slip resistance can be improved by sand saturation of the surface. For further information, please refer to the TECHNICAL INFORMATION section of the Alucoat catalogue.

Alucoat S 15 consists of a high-strength cement-based dry mortar that mixes with water to an easily worked mortar.

Alucoat S 15 is applied as 4-6,6-8, 8-12,12-25 mm thick layer onto new or existing base concrete. Various colours are available.

SPECIFICATION

The base concrete is prepared by pla-ning, scabbling, and water saturation.

The Alucoat S 15 dry mortar is mixed with water (or Alucoat Basic dry mortar is mixed with water and Alucoat aggregates) in a batch mixer.

The mortar is laid and vibrated as a certain thickness.

The surface is spike-rolled.

Finally, the surface is sealed with Alucoat Curing Compound or by sand saturation with e.g. Alucoat

PROPERTY	Standard	Value	1 day	7 days	28 days
Compressive strength (MPa)	EN 12190		55	90	120
Flexural strength (MPa)	EN 196		8	12	17
Wear resistance (cm ³ /50 cm ²)	DIN 52108	5.5-6			
Freeze-thaw resistance	SS 137244	Very good			
Impermeability	DIN 1048	Water penetration < 1 mm			
Coefficient of expansion	EN 1770	$\alpha_m = 10 \cdot 10^{-6}/^{\circ}\text{C}$			
Electrical conductivity (&m)	Force method	10 _s dry 10 ₄ wet			
Setting time (hours)	EN 196-3	5-7			
Density (kg/m ³)	EN 12190	2400			



World Class Quality

Data sheet

ALUCOAT S 25

High Wear, Impact and Slip-Resistance

Alucoat S 25 is a slip-resistant flooring with extremely high resistance to wear and impact, and good chemical resistance. It is used in areas subject to very heavy wear and impact or where there are strict hygiene requirements.

Technical data

The properties depend upon curing temperature. The data given are typical for curing at -5 °C within 4-6 hours.

Impact strength can be improved by adding steel fibres, and wear resistance and compressive strength can be improved by incorporating bauxite. Slip resistance can be improved by sand saturating the surface.

For further information, please refer to the TECHNICAL INFORMATION section of the Alucoat catalogue.

Alucoat S 25 is a blend of a high-strength cement-based dry mortar (Alucoat) and aggregates (Alucoat), that mixes with water to give a stiff mortar.

Alucoat S 25 is applied as 4-6,6-8, 8-12,12-25 mm thick layer onto new or existing base concrete. Various colours are available.

SPECIFICATION

The base concrete is prepared by planing, scabbling, water saturation and priming.

The Alucoat S 25 Basic dry mortar and Alucoat aggregates are mixed with water in a batch mixer.

The mortar is laid and vibrated as a certain thickness..

The surface is power-floated.

Finally, the surface is sealed with Alucoat Curing Compound or by sand saturation with e.g. Alucoat.

PROPERTY	Standard	Value	1 day	7 days	28 days
Compressive strength (MPa)	EN 12190		50	90	110
Flexural strength (MPa)	EN 196		8	10	13
Wear resistance (cm ³ /50 cm ²)	DIN 52108	6-7			
Freeze-thaw resistance	SS 137244	Very good			
Impermeability	DIN 1048	Water penetration < 1 mm			
Slip resistance	DIN 51130	R 10			
Coefficient of expansion	EN 1770	$\alpha = 10 \cdot 10^{-6} / ^\circ\text{C}$			
Electrical conductivity (&m)	Force method	10s dry 10s wet			
Setting time (hours)	EN 196-3	6-8			
Density (kg/m ³)	EN 12190	2500			



World Class Quality

Data sheet

ALUCOAT S 35

High-Strength Anchored Flooring

Alucoat S 35 is a wear-resistant flooring for use in areas where the base course does not meet the requirements for adequate bonding.

Technical data

The properties depend upon curing temperature. The data given are typical for curing at 20°C.

Wear resistance and compressive strength can be increased by incorporating bauxite.

Slip resistance can be increased by sand saturation of the surface.

For further information, please refer to the TECHNICAL INFORMATION section of the catalogue, and the Alucoat Handbook.

Alucoat S 35 consists of a blend of a high-strength cement-based dry mortar (Alucoat), aggregates (Alucoat), steel fibres and optional Crackstop fibres that mixes with water to give a stiff mortar.

Alucoat S 35 is laid to a thickness of 23-35 mm with one or two layers of reinforcement mesh, on concrete and other base courses. Various colours are available.

SPECIFICATION

The base concrete is prepared by planing, scabbling, water saturation, and the reinforcing mesh is installed.

The Alucoat S 35 dry mortar, Alucoat aggregates, steel fibres and optional Crackstop fibres are mixed with water in a batch mixer.

The mortar is laid to a depth of 23-35 mm under powerful vibration

The surface is power-floated or spike-rolled, depending upon the desired surface.

Finally, the surface is sealed with Alucoat Curing Compound or by sand saturation with e.g. Alucoat.

PROPERTY	Standard	Value	1 day	7 days	28 days
Compressive strength (MPa)	EN 12190		70	100	120
Flexural strength (MPa)	EN 196		8	12	15
Wear resistance (cm ³ /50 cm ²)	DIN 52108	6-7			
Freeze-thaw resistance	SS 137244	Very good			
Impermeability	DIN 1048	Water penetration < 1 mm			
Coefficient of expansion	EN 1770	$\alpha_m = 10 \cdot 10^{-6}/^{\circ}\text{C}$			
Electrical conductivity (&m)	Force method	10 ⁵ dry, 10 ⁴ wet			
Setting time (hours)	EN 196-3	6-8			
Density (kg/m ³)	EN 12190	2500			

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