

WELCOME TO THE
WORLD OF
KABE FARBEN



Siemens AG



POLYFLEX®

PES-20

PES-20 Power



Powder coatings
kabe-farben.ch



KARL BUBENHOFER AG



SPECIAL POWDER COATING FOR INTERIOR USE WITH INCREASED CHEMICAL RESISTANCE.

For permanently
antimicrobial surfaces!
POLYFLEX® PES-20
STERIDUR

POLYFLEX® PES-20 - The powder coating for high demands on resistance to chemicals and cleaning agents.

Powder coatings can be sensitive to cleaning agents. Thanks to its highly cross-linked properties, POLYFLEX® PES-20 Powder is highly resistant to various cleaning chemicals.

The high resistance is confirmed with a large number of different test substances. This is significantly higher than conventional powder coatings. POLYFLEX® PES-20 Power, the even more resistant variant of even more resistant variant of POLYFLEX® PES-20, is available.

High Performance

POLYFLEX® PES-20 is resistant to a wide range of different chemicals and can therefore be used in a wide variety of demanding applications. and can therefore be used in a wide range of demanding applications.

Process reliability

This high-performance powder coating is specially designed for safe processing. It is not susceptible to thermal yellowing during curing.

Increased resistance

Thanks to its highly cross-linking properties, POLYFLEX® PES-20 has excellent abrasion and scuff resistance. abrasion and scuff resistance. This minimises the risk of paint damage.



Advantages

- High resistance to a broad spectrum of common cleaning agents
- High thermal yellowing stability during baking
- Anti-graffiti properties (PES-20-Power)
- Excellent abrasion and scuff resistance

Colors

POLYFLEX® PES-20 is available in almost all shades of all common color charts, including white and very light shades. In the case of metallic finishes, there may be restrictions due to the required chemical resistance; the feasibility of color shades must be checked individually.

Applications

- Office furniture
- Vehicle industry
- Laboratory equipment
- Aviation
- Medical technology
- Sanitary sector
- Kitchen appliances
- Brake calipers
- Rail vehicles
- Storage equipment
- Machinery industry
- Switch cabinets
- Food industry

Technical recommendations

Further information can be found on our technical data sheets and the technical recommendations TE 001 and TE 005.
www.kabe-farben.ch

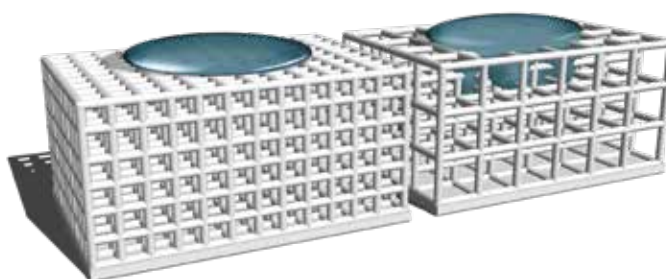
Resistance tests

Depending on requirements, we can offer customised resistance tests. (Costs charged on a time and material basis)

Overview of resistance

Trial substance	POLYFLEX® PES-20	POLYFLEX® PES-20 Power	Standard Hybrid powder coating	Epoxy powder coating
Acetone	• • •	• • • • •	•	• •
Alcohol	• • • •	• • • • •	• •	• • • • •
Petrol	• • • •	• • • • •	• • •	• • • • •
Disinfection	• • • •	• • • • •	• • • • •	• • • •
Cleaning agent	• • •	• • • • •	•	• • • • •
Hydraulic oil	• •	• • • • •	• •	•
Brake fluid	• • •	• • • • •	• •	• •
Acids	• • • •	• • • • •	• • • • •	• • • •
Lyes	• • • •	• • • • •	• • •	• • •

Powder coating cross-linking model












POLYFLEX® PES-20 Power

POLYFLEX® PES-20
 The penetration of cleaning agents is prevented (highly cross-linked powder coating)

Conventional powder coating

Conventional powder coating
 Cleaning agents can penetrate

POLYFLEX® range overview

Indoor application		
Functional epoxy powder coating		EP-20 GU
Functional epoxy powder coating		EP-25-NT / UNT
Hybrid powder coating with high resistance to cleaning agents		PES-20 GU
Hybrid powder coating with extremely high resistance to cleaning agents (anti-graffiti)	 *	PES-20-Power
Hybrid powder coating with good resistance to cleaning agents		PES-50-NT / UNT GU
Hybrid thin-film powder coating with good resistance to cleaning agents		PES-50-DS / NT
Hybrid powder coating with good resistance to cleaning agents		PES-55-NT / UNT
Thin-film powder coating with good resistance to cleaning agents		PES-55-DS / NT
Hybrid powder coating with very good all-round properties		PES-75-NT
Polyester powder coating for indoor applications with very good all-round properties		PES-96-NT
External use in industry		
Polyester powder coating		PES-136 GU
Polyester powder coating with extremely high resistance esp. to chemical textile finishing agents		PES-138-Power
Polyester powder coating		PES-166-NT GU
Thin-film polyester powder coating		PES-166-NT-DS
Polyurethane powder coating		PUR-125 GU
External application on facades		
Deep-matte facade polyester powder coating		PAC-135
Highly weather-resistant polyester powder coating		* PAC-140-SD
Polyester powder coating Class 1 / standard	   *	PES-135 GU
Highly weather-resistant polyester powder coating Class 2 / HWF	 	* PES-140-SD NT
Polyester powder coating with popular wrinkle effect		PES-150
Polyester powder coating LT Class 1 / standard	 	* PES-165-NT GU
Polyurethane powder coating with extremely high resistance to cleaning agents		PUR-151
Specialities		
High-reactivity powder coatings for use on thermally-sensitive substrates in indoor areas		REACTIVE PES-75
High-reactivity powder coatings for use on thermally-sensitive substrates in indoor and outdoor areas		REACTIVE PES-125
High-reactivity powder coatings for use on thermally-sensitive substrates in outdoor areas, highly weather-resistant		REACTIVE PES-225

* Approvals available depending on version.

Degree of gloss versions

Gloss, silk gloss, silk matte, matte (flat matte)

Surfaces

Smooth, coarse structure, fine structure

Color shades

RAL, RAL-Design, NCS, MCS, Pantone, other color systems or according to your specifications

Special effects and finishes

Hammered finish, metal effect, speckled effect, Decorative effect, 3D effect, transparent, soft-touch

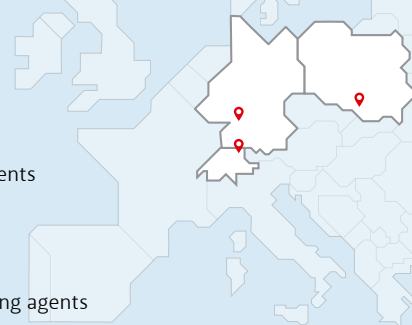
Metallics

Pearl Metallics, Metallics


Special versions with various technical properties of the powder coatings


- Electrically conductive powder coatings, ESD+
- Calorific value-optimised powder coatings
- Antimicrobial powder coatings (STERIDUR)
- Anti-graffiti powder coatings
- Powder coatings with resistance to textile finishing agents
- GU versions for off-gassing substrates
- Thin-film powders
- Non-slip versions for improved printing capability e.g. with screen printing
- Increased abrasion-resistance and resistance to cleaning agents
- Many LT (low-temperature cure) products
- Special powders for vertical application systems


If you have additional requirements, please contact your technical sales consultant. They will be happy to give you further advice.




Powder coatings | Paints + plasters | Facade insulation | Industrial coatings

 **KARL BUBENHOFER AG** | Hirschenstrasse 26 | 9201 Gossau SG, Schweiz
T +41 71 387 41 41 | info@kabe-farben.ch | kabe-farben.ch

 **KABE Pulverlack Deutschland GmbH** | Sofienstrasse 36 | 76670 Graben-Neudorf, Deutschland
T +49 7255 99 161 | info@kabe-pulverlack.de | kabe-pulverlack.de

 **Farby KABE Polska Sp. z o.o.** | ul. Śląska 88 | 40-742 Katowice, Poland
T +48 32 609 57 40 | proszkowie@farbykabe.pl | farbykabe.pl

A company which is part of **KABE SwissGroup** 



KARL BUBENHOFER AG