

Automotive Wrapping Film

CC+ 4000er SERIES

CC+ 4000 – CC+ 4199,
CC+ 4300 – CC+ 4999

Product Description

Premium wrapping film in cast quality. The film is designed specifically for vehicle wrapping applications. The film features an air channel adhesive system which allows for quick and efficient installation without the formation of bubbles. The special adhesive is designed for dry application on painted vehicle surfaces.

Technical Specifications

Film construction	Multi-layered cast PVC		
Thickness (without protective liner and adhesive)	Approximately 110 µm		
Adhesive-type	Solvent polyacrylate, repositionable with permanent final adhesion (dry application)		
Dimensional stability	Applied on steel, max. 0.1 mm shrinkage		
Temperature resistance	-50° C to +120° C, no change (short-term load)		
Solvent / chemical resistance	At room temperature, 72 hours after applied to aluminum, resistant against most oils, greases, fuels, aliphatic solvents, weak acids, salts and alkalis		
Fire behavior	Applied to steel, self-extinguishing		
Adhesive Power (after 24h, stainless steel)	16 N/25 mm		
Elongation at break	Longitudinal: > 150% (metallic 120%) Diagonal: > 150% (metallic 120%)		
Shelf life	2 years (upright storage, in original packaging at 20° C and 50% relative humidity)		
Application Temperature	> +15° C / optimally 20 – 23° C		
Expected service life* (Installation on painted vehicle surfaces)		vertical	horizontal
	CC+ 4000 Black, White, Colored	8 years	4 years
	CC+ 4000 Metallic, Matt, Matt Metallic	5 years	2,5 years
	CC+ 4000 Special Pigment (SP)	3 years	2 years
	CC+ 4000 Color Match on request	3 years	1,5 years

* Expected durability when applied by a specialist, and with proper maintenance and care. Applies to vertical outdoor weathering and Central European climate. The actual and expected durability is determined by the environmental conditions, as well as pre-treatment of the surface and regular care of the installed film.

Additional Information:

The above information is based solely on our current knowledge and practical experience. The information is provided without any guarantee or agreement with regards to the quality or properties of the material. This information does not constitute a warranty of any certain quality, properties and/or durability concerning our color films.

IMPORTANT NOTE

Due to the variety of applications and the ongoing development of new applications, it is up to the buyer to determine the suitability and efficiency of the product for the respective purpose of use. The buyer bears all risks arising from the use of the product. All information is subject to change.

Automotive Wrapping Film

TECHNICAL GUIDE

CC+ 4000 – CC+ 4199,
CC+ 4300 – CC+ 4999

GENERAL REQUIREMENTS

BRUXSAFOL vehicle wrapping films for application on car components and full vehicle wrapping are premium self-adhesive film products for temporary decorations on vehicles.

Please note that vinyl films are by nature more sensitive than vehicle paints. Accordingly, the films require special care when being applied and cleaned. Please read our current Installation and Care Instructions.

The application and removal of BRUXSAFOL vinyl films should only be carried out by trained specialist personnel.

If BRUXSAFOL vinyl films are not installed by a specialist, or if installed incorrectly, the paint of the vehicle may be damaged and/or the durability of the film can be significantly reduced.

Durability

The expected durabilities indicated in the technical data sheets are maximum durabilities that can only be achieved with vertical external weathering under normal Central European environmental conditions.

	Climate Zone 1*		Climate Zone 2*		Climate Zone 3*	
	vertical	horizontal	vertical	horizontal	vertical	horizontal
CC+ 4000 Black, White, Colors	8	4	6	3	4	2
CC+ 4000 Metallic, Matt, Matt Metallic	5	2,5	3	1,5	1	0,5
CC+ 4000 Special Pigment (SP)	3	2	1	0,5	0,5	0,25
CC+ 4000 Color Match on request	3	1,5	1	0,5	0,5	0,25

* Indication of the expected maximum durability in years. Further details about specific climate zones can be inquired in writing.

Notes

The information regarding expected durability does not constitute a legally binding guarantee, warranty or other claim. The information provided is based on practical experience and artificial and natural weathering tests under normal conditions. This information cannot be transferred to the expected maximum durability for every vehicle given the wide variety of possible influences, for example additional mechanical and chemical impacts.

The overall assessment of the expected durability is generally based on the data for horizontal application.

Reduction of expected durability

A reduction in the durability of BRUXSAFOL vinyl films can occur under the following circumstances:

- When used on unsuitable surfaces
- In case of insufficient or improper cleaning of the application surface
- When exposed to high temperature and/or high humidity for extended periods of time
- If not cleaned regularly, for example if insect remains and/or bird droppings are not removed promptly
- Exposure to high level of air pollution, such as in industrial areas, in metropolitan areas or in big cities
- When exposed to high UV exposure, for example at high altitudes or desert areas
- When using non-approved aggressive cleaners/sealers/primers

Automotive Wrapping Film

CC+ 4200er SERIES

CC+ 4200 – CC+ 4299

Product Description

Premium wrapping film in double-cast quality. The film is designed specifically for vehicle wrapping applications. The film features an air channel adhesive system which allows for quick and efficient installation without the formation of bubbles. The special adhesive is designed for dry application on painted vehicle surfaces.

Technical Specifications

Film construction	Two-layer wrapping film, cast		
Thickness (without protective liner and adhesive)	Approximately 100 – 120 µm (depending on type)		
Adhesive-type	Acrylic adhesive system, repositionable with permanent final adhesion (dry application)		
Dimensional stability	Applied on steel, max. 0.1 mm shrinkage		
Temperature resistance	-40° C to + 90 ° C, no change (short-term load)		
Solvent / chemical resistance	At room temperature, 72 hours after applied to aluminum, resistant against most oils, greases, fuels, aliphatic solvents, weak acids, salts and alkalis		
Fire behavior	Applied to steel, self-extinguishing		
Adhesive Power (after 24h, stainless steel)	16 N/25 mm		
Elongation at break	120 µ > 140% 100 µ > 140% 80 µ > 140%		
Shelf life	2 years (upright storage, in original packaging at 20 ° C and 50% relative humidity)		
Application Temperature	> +15°C / optimally 20-23°C		
Expected service life* (Installation on painted vehicle surfaces)		vertical	horizontal
	CC+ 4200 Metallic, Matt, Matt Metallic	5 years	2,5 years
	CC+ 4200 Series	5 years	2,5 years
	CC+ 4200 Color Match on request	3 years	1,5 years

*Expected durability when applied by a specialist, and with proper maintenance and care. Applies to vertical outdoor weathering and Central European climate. The actual and expected durability is determined by the environmental conditions, as well as pre-treatment of the surface and regular care of the installed film.

Additional Information:

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IMPORTANT NOTE

Due to the variety of applications and the ongoing development of new applications, it is up to the buyer to determine the suitability and efficiency of the product for the respective purpose of use. The buyer bears all risks arising from the use of the product. All information is subject to change.

Automotive Wrapping Film

TECHNICAL GUIDE

CC+ 4200 – CC+ 4299

GENERAL REQUIREMENTS

BRUXSAFOL vehicle wrapping films for application on car components and full vehicle wrapping are premium self-adhesive film products for temporary decorations on vehicles.

Please note that vinyl films are by nature more sensitive than vehicle paints. Accordingly, the films require special care when being applied and cleaned. Please read our current Installation and Care Instructions.

The application and removal of BRUXSAFOL vinyl films should only be carried out by trained specialist personnel.

If BRUXSAFOL vinyl films are not installed by a specialist, or if installed incorrectly, the paint of the vehicle may be damaged and/or the durability of the film can be significantly reduced.

Durability

The expected durabilities indicated in the technical data sheets are maximum durabilities that can only be achieved with vertical external weathering under normal Central European environmental conditions.

	Climate Zone 1*	
	vertical	horizontal
CC+ 4200 Metallic, Matt, Matt Metallic	5	2,5
CC+ 4200 Series	5	2,5
CC+ 4200 Color Match on request	3	1,5

* Indication of the expected maximum durability in years. Further details about specific climate zones can be inquired in writing.

Notes

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The overall assessment of the expected durability is generally based on the data for horizontal application.

Reduction of expected durability

A reduction in the durability of BRUXSAFOL vinyl films can occur under the following circumstances:

- When used on unsuitable surfaces
- In case of insufficient or improper cleaning of the application surface
- When exposed to high temperature and/or high humidity for extended periods of time
- If not cleaned regularly, for example if insect remains and/or bird droppings are not removed promptly
- Exposure to high level of air pollution, such as in industrial areas, in metropolitan areas or in big cities
- When exposed to high UV exposure, for example at high altitudes or desert areas
- When using non-approved aggressive cleaners/sealers/primers

Automotive Wrapping Film CC+ 5000 SERIES

Product Description

Calendared wrapping film, especially suitable for quick and easy automotive wrapping. Gloss and matt finishes are available. The air channel adhesive system allows easy and efficient application without the formation of bubbles. The special adhesive allows for an application on painted surfaces. For strongly curved surfaces as well as in deep recesses, the film should be applied tension-free (This is achieved by using the feeding technique or using inlays/overlaps).

Technical Specifications

Film construction	Multi-layered cast PVC		
Thickness (without protective liner and adhesive)	Approximately 100 µm		
Adhesive-type	Acrylic adhesive system, repositionable with permanent final adhesion (dry application)		
Dimensional stability	Applied on steel, max. 0.5 mm shrinkage		
Temperature resistance	-20° C to + 90° C, no change (short-term load)		
Solvent / chemical resistance	At room temperature, 72 hours after applied to aluminum, resistant against most oils, greases, fuels, aliphatic solvents, weak acids, salts and alkalis		
Fire behavior	Applied to steel, self-extinguishing		
Adhesive Power (after 24h, stainless steel)	>750 N/m		
Shelf life	2 years (upright storage, in original packaging at 20 ° C and 50% relative humidity)		
Application Temperature	+15° C / optimally 20 – 23° C		
Expected service life* (Installation on painted vehicle surfaces)	CC+ 5000 Black, White, Transparent CC+ 5000 Color, matt	vertical 7 years 5 years	horizontal 5 years 3 years

*Expected durability when applied by a specialist, and with proper maintenance and care. Applies to vertical outdoor weathering and Central European climate. The actual and expected durability is determined by the environmental conditions, as well as pre-treatment of the surface and regular care of the installed film.

Additional Information:

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Automotive Wrapping Film

TECHNICAL GUIDE

CC+ 5000

GENERAL REQUIREMENTS

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Durability

The expected durabilities indicated in the technical data sheets are maximum durabilities that can only be achieved with vertical external weathering under normal Central European environmental conditions.

	Climate Zone 1*	
	Vertical	Horizontal
CC+ 5000 Black, White, Transparent	7	5
CC+ 5000 Color, Matt	5	3

* Indication of the expected maximum durability in years. Further details about specific climate zones can be inquired in writing.

Notes

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Reduction of expected durability

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- When used on unsuitable surfaces
- In case of insufficient or improper cleaning of the application surface
- When exposed to high temperature and/or high humidity for extended periods of time
- If not cleaned regularly, for example if insect remains and/or bird droppings are not removed promptly
- Exposure to high level of air pollution, such as in industrial areas, in metropolitan areas or in big cities
- When exposed to high UV exposure, for example at high altitudes or desert areas
- When using non-approved aggressive cleaners/sealers/primers

Automotive Wrapping Film**OVERVIEW CLIMATE ZONES****Climate Zone 1** *temperate*

Albania, Andorra, Belgium, Bosnia-Herzegovina, Bulgaria, Denmark, Germany, Ecuador, Estonia, Finland, France, Georgia, Ireland, Italy, Italy, Kosovo, Croatia, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Moldova, Monaco, Montenegro, Netherlands, Norway, Austria, Poland, Romania, Russia, San Marino, Sweden, Switzerland, Serbia, Slovakia, Slovenia, Czech Republic, Ukraine, Hungary, USA (no desert areas), Vatican City, United Kingdom, Belarus

Climate Zone 2 *humid/warm*

Afghanistan, Angola, Equatorial Guinea, Armenia, Azerbaijan, Australia (no desert areas), Bahamas, Bangladesh, Barbados, Belize, Benin, Bhutan, Bolivia, Botswana, Brazil, Burkina Faso, Burundi, Chile, China, Costa Rica, Dominica, Dominican Republic, El Salvador, Ivory Coast, Fiji, Gabon, Gambia, Ghana, Grenada, Greece, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, India, Indonesia, Jamaica, Japan, Cambodia, Cameroon, Cape Verde, Caribbean Islands, Kazakhstan, Kenya, Kyrgyzstan, Colombia, Congo, Laos, Lesotho, Liberia, Madagascar, Malawi, Malaysia, Maldives, Mali, Mauritania, Mauritius, Micronesia, Mozambique, Myanmar, Namibia, Nepal, New Zealand, Nicaragua, Niger, Nigeria, East Timor, Pakistan, Panama, Papua New Guinea, Paraguay, Peru, Philippines, Portugal, Puerto Rico, Rwanda, Zambia, Samoa, San Marino, Sao Tome and Principe, Senegal, Sierra Leone, Zimbabwe, Singapore, Spain, Sri Lanka, South Africa, South Korea, Suriname, Eswatini, Tajikistan, Taiwan, Tanzania, Thailand, Togo, Trinidad and Tobago, Turkey, Turkmenistan, Uganda, Uruguay, Uzbekistan, Venezuela, Vietnam, Central African Republic, Cyprus

Climate Zone 3 *dry/hot*

All desert areas, exposed heights from 1,000 m above sea level and regions of extremely high UV exposure, Egypt, Algeria, Ethiopia, Bahrain, Eritrea, Iraq, Israel, Yemen, Jordan, Qatar, Kuwait, Lebanon, Libya, Morocco, Mexico, Oman, Saudi Arabia, Somalia, Chad, Tunisia, United Arab Emirates