

10851 BARILINE EXPRESS

Fast drying, high gloss one component alkyd based topcoat. Durable high gloss topcoat on primed steel surfaces. Recommended as an industrial finishing for objects in ACE, OEM and other machinery industry.

FEATURES

- quick drying unique short oil alkyd technology;
- lead chromate free;
- easy application;
- up to 30 years track record;
- good wathering properties

WORKING PROCESS

Thinning:	The paint can be applied with airless, airmix spraying equipment, brush and roller without thinning. Under certain circumstances a small amount of thinner X5100 can be added to obtain the correct viscosity. In case of electrostatic spraying, it is possible to adjust the electric resistance of the paint to 500-1000 ohm, by means of solvent ES5401.
Conditions during application:	The temperature of the substrate should be at least 3°C above dew point. Keep application area well ventilated during application and drying, in order to reduce evaporated solvents. This is necessary to acquire good drying properties and for the good of the applicators' health.
Method of application:	Preferably by means of airless or airmix spray equipment. When using brushes, a different film thickness and possibly inferior flow will be achieved.

PERFORMANCE AND PROPERTIES

Aesthetic product properties:

Gloss:	Full Gloss
Colour:	Standard colours, also chrome and lead free (e.g. RAL, NCS)

Product properties:

Volume solids:	± 50 volume % (mixed product)
VOC:	≤ 440 gr/ltr.
Density:	At 20°C ± 1,20 kg/ltr (mixed product)
Dry Film thickness:	Standard: 50-70 µm (depends on application process)
Theoretical coverage:	At a dry film thickness of 50 µm 10 m ² /ltr
Practical coverage:	The performance in practice depends on various circumstances. As a guideline for airless spraying: For large dimensions: 70% of the theoretical coverage. For small dimensions: 50% of the theoretical coverage.
Heat resistance:	Maximum 120°C (dry load) White and light colours may show a permanent, slight yellowing.
Opacity:	To achieve best opacity of topcoat some colours need a special shade of primer. Please ask our technical department for advice.

Dry times: at 23°C/50% R.H. (method: BYK Drying recorder)

Dust free after 30 minutes. Recoatable after 1 hour with Bariflex products (recoating with Bariline products wrinkling may occur). At a higher dry film thickness, longer dry times should be taken into account.

Before placing an object outdoors, it is necessary that the paint film of 10851 is cured enough. When the curing period is too short, a white discolouration may occur when the paint film comes into contact with water.

In case storage facilities indoors are limited, and objects need to be placed outdoors, is advised to cover the object to protect them against contact with water.

PROCESSING DATA

	Airless spray	Airmix
Thinner	X5100	X5100
Quantity	0-10 vol.%	0-10 vol.%
Nozzle	min 0,015 inch	min 0,015 inch
Flow pressure	140-160 bar	70-100 bar
Dry film thickness	50-70 mm	50-70 mm

	Brush-roller	Airspray
Thinner	S5102	X5100
Quantity	0-5 vol.%	10-20 vol.%
Nozzle		1,5-2 mm
Flow pressure		3-4 bar
Dry film thickness	40 µm	50-70 mm

Cleaning tools: Immediately after application using thinner X5100.

PRODUCT INFORMATION

Packaging:	20 litre cans and 200 litre drums. Thinner in 25 litre cans and 200 litre drums.
Shelf life:	In original well shut packaging 12 months, stored inside at temperatures between 5°C and 40°C.

ENVIRONMENT AND HEALTH

Labelling: In accordance with EU directions 67/548/EEG and in accordance with directives on hazardous materials. Harmful and irritating in contact with skin, eyes and by inhalation. In case of eye contact, immediately wash with large amounts of water and contact a medical expert. Do not eat, drink or smoke during application.

UN: 1263
Aware code: **49-II**

AWARE

The AWARE (acronym for Adequate Warning and Air Requirement) is a coding system for products containing volatile organic compounds (VOC), a tool for product manufacturers to support risk assessment and product innovation. Additionally it can be used for hazard communication with end-users to inform them about potential health risks of hazardous products. The system is based on the Norwegian concept for the OAR (Occupational Air Requirement) and the Danish concept for the MAL-code system. The AWARE code consist of two digits separated by a hyphen. Both digits are elaborated based on physical-chemical considerations and adapted to the European Dangerous Preparations Directive. The first digit is expressed as m3 required fresh air at the workplace to dilute the emissions from one litre used product to be sure not to exceed the level of the Occupational Exposure Limit (OEL). It is based on the component content, vapour pressure, solubility and toxicity. The second digit is derived from R phrases ascribed to the substances in the product. In this way the AWARE is a tool that can be used for risk identification of products as well as ingredients in products. A higher AWARE does indicate a higher risk. It is a perfect tool to support substitution of hazardous products.

PRE-TREATMENT

Preliminary treatment, steel untreated:

The surface needs to be pretreated according ISO12944 part 4 § 6.2.3. Remove grease, oil, dirt etc. using an appropriate cleansing agent, for instance ENVICLEAN PR (for use see product sheet) and a high pressure spraying pistol. Grit blasting to purity degree Sa 2½ in accordance with ISO 8501-1.

After blasting remove all dust from the entire surface with compressed air which is free of moisture and grease. Apply first coating layer within 6 hours. In case the final coating layer is applied on the construction site, extra precautions need to be taken.

Preliminary treatment surface, steel ST3 hand derusted:

The surface needs to be pretreated according ISO 12944 part 4 § 6.2.2. Remove all loose traces of paint. Remove grease, oil, dirt etc. using an appropriate cleansing agent, for instance ENVICLEAN PR (for use see product sheet) and a high pressure spraying pistol. Remove the rust from any rusted patches with rotating steel wire brushes, sanding discs or steel wire brushes and coarse sandpaper to purity degree St3, in accordance with ISO 8501-1. Smooth the transition of blasted or derusted parts to parts with intact coats of paint by sanding and scraping. Roughen old and intact coats of paint by sanding. After blasting remove all dust from the entire surface with compressed air which is free of moisture and grease.

PROTECTIVE COATINGS

Our 'protective coatings' excel by virtue of their durability, flexibility, adhesion, easy application, anti-corrosion, and chemical and mechanical resistance. This is the result of our vast competence in coating chemistry, combined with a good eye for our client's requirements and wishes. The coating systems conform to ISO 12944 and comply with international VOC guidelines.

PAINT SYSTEMS

Please find below a few paint systems based on 10841 Bariline HB Finish. For customized advice on paint systems please contact Baril Coatings, or our local sales representative.

System 1 Corrosion Class C2
1st coat 80 µm;
10411 Bariline Primer HB

Top coat 80 µm;
10851 Bariline Express

System 2 Corrosion Class C2
1st coat 80 µm;
10442 Bariline Coating

Top coat 80 µm;
10851 Bariline Express

TOUCH UP

Touching up of damages or untreated parts at the construction site. Remove grease, oil, dirt etc. using an appropriate cleansing agent, for instance ENVICLEAN PR (for use see product sheet). Remove the rust from all mechanical damage caused by transport and mounting, untreated welding strips and welding spots and burns with rotating steel wire brushes, sanding discs or steel wire brushes and coarse sandpaper to purity degree St3, in accordance with ISO 8501-1.

Smooth the transition of cleansed parts to parts with intact coats of paint by sanding and scraping.

After sanding, remove all dust from the entire surface with compressed air which is free of moisture and grease. Then touch up the object with the entire paint system, as described in this paint advice.

Touch up light surface damages only with the product of the top coat, as described in the paint advice.

MAINTENANCE

It is recommended to clean the surface regularly and to inspect the coats of paint for defects annually. Touch up any defects with the original paint system.

TECHNICAL SUPPORT

Baril Coatings B.V. offers more than just advice. We offer a total service solution to the principal, the architect, the main contractor and the painting contractor.

In order to ensure the required performance in terms of durability, Baril Coatings offers full technical support and supervision during implementation and completion of the application process, all in accordance with the ISO 12944 guideline.

The supervision and support provided by Baril Coatings does not relieve the painting contractor of his responsibility for the work carried out by him. The painting contractor must thoroughly familiarize himself with the most recently updated product data sheets and the general terms and conditions of Baril Coatings for protective coatings on steel. Baril Coatings is not responsible for application and the application conditions. The final durability depends mainly on factors that are outside our control and for that reason we cannot accept any liability.

WARRANTY & DISCLAIMER

This Product Data Sheet supersedes those previously issued. Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User. The Products are supplied and all technical assistance is given subject to our UNIFORM CONDITIONS OF SALE AND DELIVERY FOR PAINT, PRINTING INK AND OTHER PRODUCTS unless otherwise expressly agreed in writing. The Manufacturer and Seller disclaim, and Buyer and/or User waive all claims involving, any liability, including but not limited to negligence, except as expressed in said UNIFORM CONDITIONS for all results, injury or direct or consequential losses or damages arising from the use of the Products as recommended above, on the overleaf or otherwise. Product data are subject to change without notice.

