



**DualCure**  
lifetime protection

## 16746 UNIBAR SOLVENT FREE

**A universal anti corrosion Solvent Free epoxy coating, prigmented with micaceous iron oxide which, applied as a single coat system, combines a high quality protection with an easy application.**

### APPLICATION

Universal application characteristics, the product can be applied as primer and/or coating on steel in aggressive and industrial environments. This product will be especially used in circumstances where solvent emissions cause problems (inside preservation of tanks, etc.). Resistant to spill of water, various solvents and chemicals. When high chemical resistance is required (Storage of e.g. Crude oil, Gasoline, Diesel and Kerosene), curing agent 16746V CRT should be applied. In case of blasted surfaces, an RA-value of 5-10µm should be taken into account.

### WORKING PROCESS

Mixture:	16746 UniBar Solvent Free Base component 4 parts by volume; 16746 UniBar Solvent Free Curing Agent 1 part by volume.
Mixing instructions:	Mix base component and curing agent intensively, preferably using a mechanical mixing device. The temperature of the mixed product should at least be 10°C during application.
Thinning:	The paint can be applied with various spray equipment. The paint can be applied with various spray equipment. The necessary amount of EP5800 depends on used equipment, application method and temperature of the mixed product.
Potlife:	At 20°C 30 minutes (mixed product).
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 conditions 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:	Silky gloss
Colour:	Standard colours, also chrome and lead free

#### Product properties:

Volume solids:	± 100 volume % (mixed product)
VOC:	0 gr/ltr.
Density:	At 20°C ± 1,60 kg/ltr (mixed product)
Dry film thickness:	Standard: 150-500 µm (depends on application process)
Theoretical coverage:	At a dry film thickness of 200 µm 5 m <sup>2</sup> /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 150°C (dry load)
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 50% R.H. and a standard dry film thickness of 150-200 µm.

	5°C	10°C	20°C	30°C
Dust free:	24 hour	16 hour	12 hour	10 hour
Manageable:	48 hour	32 hour	24 hour	20 hour
Recoatable:	36 hour	24 hour	18 hour	15 hour

Maximum interval unlimited provided the surface is clean and free of grease and/or oil. At a higher dry film thickness longer drying times should be taken in account. During drying and curing the relative humidity should remain under 80%. Furthermore, any contact with moisture must be avoided during this period. In case of water spillage during the curing cycle white spots may occur.



## PROCESSING DATA

	<b>Airless spray</b>	<b>Airmix</b>
Thinner	EP5800	EP5800
Quantity	0 vol.%	0-10 vol.%
Nozzle	0,015-0,019 inch	0,015-0,019 inch
Flow pressure	150-175 bar	70-100 bar
Dry film thickness	150-500 µm	150-500 µm

	<b>Airspray</b>
Thinner	S5102
Quantity	0-5 vol.%
Nozzle	
Flow pressure	
Dry film thickness	100 µm

Cleaning tools: Immediately after application using thinner EP5800.

## PRODUCT INFORMATION

Packaging:	20 litre cans and 200 litre drums. Thinner in 25 litre jerry cans and 200 litre drums.
Shelf life:	In original well shut packaging 12 months, stored inside at temperatures between 5°C en 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 1-IV

## 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.



## 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

Hieronder staat een aantal systemen omschreven waarin 16746 UniBar Sol-vent Free is opgenomen. Voor nadere informatie en voor een persoonlijk onderhoudsplan kunt u het beste contact opnemen met Baril Coatings B.V.

**System 1** Corrosion Class C3/C4

1st coat 80 µm;  
16743 UniBar SteelKote® Miox

2nd coat 150 µm;  
16746 UniBar Solvent Free

**System 2** Corrosion Class C5

1st coat 80 µm;  
16441 UniBar ZF Universal

2nd coat 150 µm;  
16746 UniBar Solvent Free

3rd coat 150 µm;  
16746 UniBar Solvent Free

## 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.

