

16415 UNICURE ST

Two component surface tolerant bio based anticorrosive aluminum pigmented high solids adhesion primer based on selected epoxy resins and a modified phenalkamine activator. High performance surface tolerant maintenance primer/coating, specially developed for application on ST-2 pre-treated or hand derusted surfaces as well as aged paint films and concrete.

FEATURES

- biobased mastic epoxy;
- heavy duty properties;
- extreme adhesion;
- super high solid;
- abrasion resistant;
- extreme mechanical properties;
- easy application;
- fast water resistance and very good wetting properties allow application in humid atmospheres (even on damp surfaces);
- recoatable with its self and a variety of one and two component coatings;
- for outside applications this coating should be over coated to prevent chalking.

WORKING PROCESS

Mixture:	16415 UniCure ST Base component 4 parts by volume 16415 UniCure ST Activator 1 part by volume
Mixing instructions:	Mix base component and activator 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 without thinning with various spray equipment. The eventual necessary amount of EP5800 depends on used equipment, application method and temperature of the mixed product.
Potlife:	At 20°C 5 hours (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:	Aluminum

Product properties

Volume solids:	± 80 volume % (mixed product)			
VOC:	≤ 175 gr/ltr.			
Density:	At 20°C ± 1,35 kg/ltr (mixed product)			
Dry Film thickness:	Standard: 100-240 µm (depends on application process)			
Theoretical coverage:	At a dry film thickness of 120 µm 6,7 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 200°C (dry load)			
Dry times: at 50% RH and standard dry film thickness of 240 µm. (method: BYK Drying recorder)	5°C	10°C	20°C	30°C
Dust free:	12 hours	6 hours	4 hours	2 hours
Manageable:	48 hours	30 hours	16 hours	8 hours
Recoatable:	24 hours	16 hours	8 hours	5 hours

Maximum interval unlimited provided the surface is clean and free of grease and/or oil. During drying and curing the relative humidity should remain under 90%. Furthermore, any contact with moisture must be avoided during this period.

PROCESSING DATA

	Airless spray	Airmix
Thinner	EP5800	EP5800
Quantity	0 vol. %	5-10 vol.%
Nozzle	0,015-0,017 inch	min 0,015-0,017 inch
Flow pressure	150-175 bar	70-100 bar
Dry film thickness	100-240 µm	100-240 µm

	Brush-roller	Airspray
Thinner	EP5800/S5102	EP5800
Quantity	0-5 vol %	10-20 vol.%
Nozzle		2,0-3,0 mm
Flow pressure		3-4 bar
Dry film thickness	100 µm	100 µm

Cleaning tools: Immediately after application using thinner EP5800.

PRODUCT INFORMATION

Packaging:	20 litre cans. 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 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: 17-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.

Preliminary treatment surface, hot dip galvanised:

The surface needs to be pretreated according ISO12944 part 4 § 6.2.3.4.1 (sweep blast, with inert grit). See also NEN5254 for Duplex systems. Remove grease, oil, dirt etc. using an appropriate cleansing agent, for instance ENVICLEAN PR (for use see product sheet). Lightly blast the entire zinc surface with an inert blasting agent (grain size: 0.3 - 0.5 mm, blasting pressure: 2.0 - 2.5 bar, nozzle opening: 6 mm minimum). After blasting, the entire surface must have a uniform flat appearance. Depending on the zinc layer thickness, in accordance with NEN5254, max. 5 - 10 µm of zinc can be removed.

After blasting remove all dust from the entire surface with compressed air which is free of moisture and grease. Apply first coating layer within 2 hours.

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 paint system based on 16415 UniCure ST. For customized advice on paint systems please contact Baril Coatings, or our local sales representative.

System 1	Corrosion Class C3
	1st coat 100 µm; 16415 UniCure ST
	Top coat 100 µm; 17443 PolyCoat HS

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.

CONTROL & 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.