

## **E-A-B Associates (Bayley-Edge Ltd.)**

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## **EABASSOC** PRODUCT INFORMATION

### **BSP – Chemical Converter / Primer**

#### **Description**

**BSP** is a Chemical Converter / Primer for rusted surfaces. It chemically converts damp, rusty, inhospitable surfaces, to enable high performance coatings to be applied in difficult conditions without the need for special surface preparation. **BSP** is a harmless, water-based, ready-to-use, polymeric primer, which can cope with conditions in which ordinary anti-corrosion primers will not function. It is, however, more than a physical primer. Its multi-stage chemical action stabilises bad surfaces and converts them into good ones.

#### **Uses**

**BSP** was developed for use in the North Sea, in damp, rusty, challenging environments where it is difficult to conduct special surface preparation and where most products cannot be applied. It is ideal for use in the marine and oil industries, and provides an excellent base onto which high performance protective coatings will then adhere and give long-term corrosion protection. Its many uses include:

- \* Offshore oil platforms
- \* Pylons, railings and fire escapes
- \* Pipelines and tanks
- \* Ships and bridges
- \* Factory plant and equipment maintenance
- \* Cars, trailers, farm vehicles, etc

#### **Technical Data**

Appearance:	White liquid before application. Changes colour to a blue / black coating.
Specific Gravity:	1.2
Solids Content:	42 % by volume
Viscosity:	24 seconds Ford 4 Cup at 20°C
Flash Point:	Non flammable
Toxicity:	Non toxic pigmentation and inert in dry film
Application Temperature:	5°C to 30°C. Humidity 40-90%
Drying Time:	Touch dry in about 2 hours; fully cured in about 24 hours
Dry Film Thickness:	42 microns (on smooth surface)
Flame Spread:	Conforms to Class '1' Surface Spread of Flame when tested to BS476 (Part 7), and Class 'O' when tested to BS 476 (Part 6)

#### **Advantages**

- \* **BSP** chemically converts a poor quality rusty surface into a strong, stable base, and inhibits further rusting.
- \* It is ideal for damp surfaces and humid environments.
- \* It can be applied directly onto rusted steelwork, where abrasive blasting is limited or not possible.
- \* It promotes the adhesion of high performance protective coatings onto poor quality surfaces, extending the life of the protection - saving time and cost.
- \* Requires only simple surface preparation - saving time and cost.
- \* Class 'O' fire rating. Ideal in areas where safety is important, as it is non-flammable and will not spread flame.
- \* Approved for use in food and drinks manufacturing plants by Department of Agriculture for Canada and US.
- \* It is water-based and is safe and easy to use.

## **Application Instructions**

### Surface Preparation:

- \* Surfaces should be free from grease, oil, dirt, salt and other contaminants before application.
- \* Remove all loose flaking paint and rust by wire brushing, power tools or blast cleaning.
- \* For the chemical reaction to commence it is necessary to expose some base metal, (about 10% of the surface area).
- \* Apply **BSP** when air and substrate temperatures are between 5°C and 30°C, and the humidity is between 40-90 %. On hot, very dry days it is recommended to moisten the surface by spraying a little water prior to application. **BSP** works best in damp, humid conditions.
- \* Weathered steel should be high-pressure water or wet abrasive blasted to SSOC-SP60.

### Product Preparation:

- \* Stir well before use.
- \* **BSP** should never be thinned.

### Application:

- \* Apply a thin even coat by brush, roller or deck scrubber. Can also be applied by a low pressure spray.
- \* Brush application is preferable on heavily rusted surfaces where the coating should be worked well into the surface.
- \* Before application **BSP** is a white colour. As it is applied it chemically reacts with the substrate, changing colour to a blue / black coating.

### Drying Time:

- \* **BSP** will normally be touch dry within 2 hours, depending on temperature and humidity.
- \* Allow a minimum of 8 hours before top-coating with water based products, and 24 hours before top-coating with solvent based products.

### Cleaning:

- \* Wash brushes, rollers and spray equipment with soap and water immediately after use.
- \* Clear spray lines before **BSP** dries. Once dry it is difficult to remove.
- \* Aromatic solvents can be used to soften dry brushes or to free clogged lines.

## **Coverage Rate**

Apply one or two coats. One litre will treat and prime 10 m<sup>2</sup> of a smooth non-porous surface. Actual coverage will be determined by both the porosity and the profile of the substrate to be coated. The best results are achieved with 2 coats. In applications not exposed to weathering 2 coats will give outstanding protection, up to 5 years without using topcoat systems.

## **Warehousing**

### Packaging:

**BSP** is normally supplied in 25 litre, lacquered, UN-approved steel drums. 5 and 200 litre drums are also available.

### Storage:

Store between 5°C and 30°C, and always protect from freezing. It should be kept at room temperature (about 20°C) for 24 hours before use.

### Shelf Life:

12 months in original sealed container if correctly stored.

## **Health and Safety**

**BSP** is non-flammable and water-based. The pigmentation is non-toxic and inert in dry film. It presents no serious health risk if good industrial hygiene is exercised. Splashes to skin and eyes should be washed off immediately with plenty of water. Please refer to Health and Safety Data Sheet for further information.