TECHNICAL DATA SHEET
BC 908 MP METAL PRIMER

Industrial Supplier of:

Abrasives
Adhesives
Chemicals
Coatings
Equipment
Lubricants
Sealants
Silicones
Tapes

Bradechem ISO9001 Registered Firm

BC 908 MP METAL PRIMER is a solvent based epoxy primer, for use on steel and concrete surfaces as a long-term protector against corrosion.

Product Information

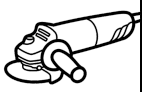
Product Features

- Solvent based epoxy coating.
- Suitable for all metallic surfaces.
- 10,000 hours corrosion resistance.
- Cures at temperatures down to 5°C.
- Apply to surface prepared using wire brushes, handheld grinders, hydro-blasting or abrasive blast cleaning.
- Applied in 1 or 2 coats at 100-125 microns per coat.

Product Applications

BC 908 MP is suitable for priming surfaces, such as;

Cold water lines, Pipework, Structural Steel, External tank surfaces etc.



Surface Preparation Manual – Mechanical – Abrasive Blast

Brush or Roller Applied

Cures at Temperatures Down to 5°C

Long Term Protection Against Corrosion

Surface Preparation

Mechanical Abrasion

1. All oil and grease must be removed from the surface using an appropriate cleaner such as BC 9918 MEK Cleaner.
2. All surfaces must be mechanically abraded using handheld grinders to abrasive blasting to **ISO 8501/4 Standard ST3 (SSPC SP3)**.
3. Once abraded, the surface must be degreased and cleaned using BC 9918 MEK or similar type material.
4. All surfaces must be coated before flash rusting or oxidation occurs.

Hydro-blasting

1. All surfaces need to be hydro-blasted with clean water at 12,000 psi to **NACE 5 (SSPC SP13 WJ3-WJ1).**
2. All surfaces must be coated before flash rusting or oxidation occurs.

Abrasive Blast Cleaning

1. All oil and grease must be removed from the surface using an appropriate cleaner such as BC 9918 MEK Cleaner.
2. All surfaces must be abrasive blasted to **ISO 8501/4 Standard SA2.5 (SSPC SP10 / NACE 2)** minimum blast profile of 75 microns (3mil) using an angular abrasive.
3. Once blast cleaned, the surface must be degreased and cleaned using BC 9918 MEK or similar type material.
4. All surfaces must be coated before flash rusting or oxidation occurs.

PLEASE NOTE: For salt contaminated surfaces the area must be abrasive blast cleaned as above, as well as left for 24 hours to allow any ingrained salts to come to the surface. After the 24-hour period the surface must be washed with BC 9918 MEK Cleaner prior to brush blasting to remove the surface salts. Repeat this process until all ingrained contaminants have been sweated out of the surface.

Existing Concrete

1. Check the surface for contaminants (such as; oil or grease) and clean using a pressure washer.
2. Once concrete is dry, lightly abrasive blast/scarify (taking care not to expose the aggregate).
3. Clean all dust and debris from the surface.

Mixing

Prior to mixing please ensure the following:

1. The base component is at a temperature between 15-25°C (60-77°F).
2. The ambient & surface temperature is above 5°C (41°F).
3. The ambient & surface temperatures are not less than 3°C (37.4°F) above the dew point.

Then proceed with mixing the product:

1. Transfer the contents of the Activator unit into the Base container.
2. Mix the components with an electric paddle mixer until a uniform material free of any streaks is achieved.
3. From the commencement of mixing the whole material should be used within 2 hours at 20°C (68°F).

Application

Brush or Roller Applications -

1. Pour the mixture into a paint kettle or tray.
2. Apply a 100mm (4") wide stripe coat to all edges, joints, corners and equipment with a 50mm (2") synthetic brush at a wet thickness at 150microns (6mils).
3. Once the stripe coat has cured sufficiently for overcoating, apply the mixed product to all surfaces at 150 microns (6mils) wet thickness.
4. Once the 1st coat has cured appropriately, after about 6 hours at (20°C/68°F), apply a 2nd coat as before.

Technical Data & Performance

Coverage Rates

5 LTR (1.3 US Gallon) of fully mixed material will give the following coverage rates -	
33m^2 at 150 microns	355ft^2 at 6mil
20 LTR (5.3 US Gallon) of fully mixed material will give the following coverage rates -	
133m^2 at 250 microns	1430ft^2 at 6mil
Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.	

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Drying & Cure Times

At 20°C (68°F) allow the applied materials to harden for the times shown below before subjecting them to the conditions indicated. These times will be extended at lower temperatures and reduced at higher temperatures.

Useable Life	2 hours
Minimum overcoating time	6 hours
Maximum overcoating time	36 hours

Appearance

Base Material Colour	Dark grey liquid
Activator Material Colour	Amber liquid
Mixed Material Colour	Grey liquid

Available Colours

Dark Grey

Over Coating Times

Minimum	The applied material can be over coated as soon as it is touch dry (approx. 6 hrs)
Maximum	The overcoating time should not exceed 36 hours.

Where the maximum over coating time is exceeded, the material should be allowed to harden before being abraded or flash blasted to remove surface contamination.

Mixing Ratio

Component	Base	Activator
By Weight	4.5	1
By Volume	4	1

Density

Mixed	1.12
Activator	1.02
Base	1.15

Solids Content

85%

Slump Resistance

Nill at 150 microns

Useable Life

10°C (50°F)	4 hours
20°C (68°F)	2 hours
30°C (86°F)	60 minutes

Pack Sizes

5LTR (1.3 US Gallon) 20LTR (5.3 US Gallon)

Shelf Life

5 years if unopened and store in normal dry conditions (15-30°C / 60-86°F)

Mechanical Properties

Tensile Shear Adhesion ASTM D1002 (Abrasive Blasted Mild Steel with 75 micron profile)	195kg/cm^2 (2770 psi)
Salt Fog Resistance ASTM B117	10,000 hours
Corrosion Resistance ASTM B117	Minimum 5000 hours
Hardness Shore D ASTM D2240	80

Heat Resistance

Suitable for use in immersed conditions at temperature up to 40°C (104°F).

Resistant to dry heat up to 120°C (248°F) dependent on load.

Chemical Resistance

The product demonstrates resistance to a wide variety of inorganic acids, alkalis', salts and organic media.

Chemical	Concentration	Temperature
Sulphuric Acid	20%	40°C
Sodium Hydroxide	35%	40°C
Hydrocholric Acid	10%	40°C
Phosphoric Acid	25%	40°C