

## TECHNICAL PRODUCT DATASHEET

# Epidac 112

## MIO Undercoat/Finish Highways England Item 112



**Epidac 112** is a high-solids epoxy providing long-term protection of steel and galvanised fabrications.

### PRODUCT INFORMATION

**Coating type:**

High solids epoxy with 80% MIO pigmentation (with low temperature curing properties).

**Features and benefits:**

- High volume solids
- Low VOC content – compliant with EPA PG23/6
- Offers enhanced barrier protection using laminar MIO pigmentation
- Excellent adhesion to galvanised steelwork

**Reference Number:**

90-200

**Appearance:**

Low sheen finish

**Colours available:**

Grey  
(approximately BS 4800 00-A-09)

### TECHNICAL INFORMATION

**Theoretical coverage:**

5m<sup>2</sup> per litre at 150 microns dry film thickness

**Film thickness:**

	Wet film thickness	Dry film thickness
<b>Typical:</b>	200 microns	150 microns
<b>Range:</b>	130-235 microns	100-175 microns

**Recommended intermediates and topcoats:**

Dacthane 85 - HE Item 168 (85-LINE)  
Dacsil 200 - HE Item 185 (200-LINE)  
Dacfree 581 (81-LINE)

**Recommended primers for steel:**

Epidac FS (79-498)  
Epidac 115 (90-268)  
Epidac 110 (90-11)

**Sag tolerance:**

300 microns wet film thickness

**V.O.C.:**

213g/m<sup>2</sup>/ltr EPA Method 24  
102g/m<sup>2</sup>/kg calculated from formulation to satisfy EU Solvent Emissions Directive  
*May vary with colour*

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## TECHNICAL INFORMATION

### % Volume solids:

75% calculated from laboratory formulation  
May vary with colour

### Drying time:

Temp.	Touch dry	Firm dry	Overcoat*
5°C	8 hrs	16 hrs	10 hrs
10°C	4 hrs	8 hrs	6 hrs
20°C	2hrs	4 hrs	4 hrs
30°C	---**	2 hrs	2 hrs

\*With epoxy or polyurethane

\*\*Value not determined

*Drying time will vary with temperature, air movement, etc. Overcoating should either be done with the product itself, epoxy-ester, pitch-epoxy or oleo-resinous paints. Maximum overcoating is 5 days at 20°C. After this period, surface should be lightly abraded and 'solvent-wiped' prior to apply further coats.*

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## SURFACE PREPARATION

### Paint preparation before use:

Stir the base component thoroughly, then add the activator to the base in the ratio mentioned below. Mix the activator and base until they become homogenous.

### Mixing ratio by volume:

4-parts base to 1-part activator

### Surface preparation:

All surfaces to be coated should be clean, dry, and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000. Normally applied direct to 'weathered' galvanising or new galvanised steel pre-treatment with T-Wash (150-23).

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## APPLICATION

### Application conditions:

This material should preferably be applied at temperatures more than 10°C. Relative humidity should not exceed 90% and in these conditions good ventilation is essential. Substrate temperature should be at least 3°C above the dew point and always above 10°C.

At application temperatures below 15°C, drying and curing times will be significantly extended, and spraying characteristics may be impaired

### Airless spray:

Tip size:            Approx. 13-15 thou (0.33-0.38mm)  
Tip pressure:       Minimum 2000psi (135bar)

### Brush application:

Apply to the specified wet film thickness using a 'full' brush. Do not 'brush-out' or 'lay-off'.

### Roller application:

This product is not suitable to be rolled.

### Thinning:

Thinning is not normally required with this product but where preferable Dacrylate Thinner R5 should be used.

### Clean-up:

Clean all equipment after use with Dacrylate Thinner R9. Do not allow product to remain in hoses, guns, or spray equipment. All surplus product should be disposed of in accordance with appropriate regional regulations/legislation.

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## STORAGE AND PACKAGING

**Storage:**

Under cover within temperature range of 5°C to 32°C.  
Keep containers dry and tightly sealed to avoid moisture contamination.

**Pot life (at 20°C):**

2 hours

**Packaging:**

5 litre composite packs

**Shelf life:**

2 years or longer in unopened containers when stored under cover within a temperature range of 5°C to 32°C.

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## HEALTH AND SAFETY

Please refer to the following data sheets:

**90-200B 11042 Epidac 112**

**90-A200 11045 Epidac 112**

*All work involving the application and use of this product should be performed in compliance with all relevant national, health, safety & environmental standards, and regulations*

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## ADDITIONAL NOTES

The application and spray information given above is intended as a guide only. As conditions vary from job-to-job, it is the applicators responsibility to ensure all equipment in use has been set up to give the best results.

Epidac 2 HS Primer will cure at temperatures down to 0°C, however at temperatures below 15°C, the base and hardener will thicken considerably and affect application characteristics. At low ambient temperatures we would advise that base and hardener are warmed separately to 20°C before use to ensure optimum application properties.

Due to the high solids content of this product, it is essential to use a power stirrer for mixing prior to application. The addition of the curing agent at the commencement of the mixing process will considerably ease this operation.

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## IMPORTANT INFORMATION

The information supplied in this product datasheet is not intended to be exhaustive. Any person using the product for any other purpose than that specifically recommended in this product datasheet, without first obtaining written confirmation from Dacrylate Technical Services as to the suitability of the product for the intended purpose does so at their own risk. All advice given about the product is correct to the best of our knowledge, however we have no control over the condition of the substrate, preparation or the many factors affecting the use and application of the product. Therefore, unless specifically agreed in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product.

Dacrylate warrants its products to be free from defects in material and workmanship. Dacrylate's obligations and buyer's exclusive remedy relating to the products shall be limited, at Dacrylate's option, to either replace the products not conforming the warranty or the credit of the buyers account in the invoiced amount of the non-conforming product. Any claim under this warranty must be made by the Buyer to Dacrylate in writing within five (5) days of the Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. The Buyer's failure to notify Dacrylate of such non-conformance as required herein shall bar the Buyer from recovery under this warranty.

The information detailed in this datasheet is liable to modification from time-to-time in the light of experience and our programme of product development. Before use, it is the customers responsibility to check with Dacrylate Customer Services, quoting the product reference number and version reference at the bottom of the data sheet, to ensure that they have in their possession the latest issue.

Technical product datasheets are available from our website at [www.dacrylate.co.uk](http://www.dacrylate.co.uk), and should be the same as this datasheet. Should there be any discrepancies between this document and the website version, then please contact Dacrylate Customer Services.

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