

Dura-Systems Metal Primer DS-100

Technical Data Sheet



Product Description

Dura-Systems Metal Primer is a medium viscosity, colourless solvent-free 2 component methacrylic resin that cures rapidly even at low temperatures if hardener is added. Its higher viscosity makes Dura-Systems Concrete Primer suitable for priming vertical and absorbent substrates with sufficient strength.

Application

Dura-Systems Metal Primer has very good adhesion on metals such as untreated steel, stainless steel (V2A), aluminium and galvanized sheet metal and other non-absorbent substrates. Curing and adhesion tests will generally have to be carried out.

Once the substrate has been inspected, it normally needs to be pre-treated. The surfaces must be dry, firm and load-bearing and also free of dust, oil and grease and other substances which could act as a separating layer. Steel substrates must be derusted and prepared to SA 2½ in accordance with DIN 55929. Non-ferrous metals must be cleaned and prepared by sanding down or blasting.

The necessary quantity of hardener must be adjusted considering the temperature of the building. For the exact quantities, please refer to the "Catalyst Dosages" table.

You must not dose less than the given quantity of hardening powder, as this will jeopardise the curing process. You must also avoid overdosing the hardening powder, as this can likewise lead to serious curing problems.

The material must be applied as soon as the catalyst has finished dissolving in the resin components. The mixing time is about 2 minutes.

Before any further finishing with subsequent MMA systems, the Dura-Systems Metal Primer must be completely cured.

Dura-Systems Metal Primer should be applied with the use of a short-pile solvent-resistant paint roller. If applying Dura-Systems Metal Primer as a thin coating, we recommend using short-pile plush mohair rollers.

Special advice:

Dura-Systems Metal Primer reaches its final physical properties in terms of compressive strength, final adhesion etc. after a post-reaction period which may last several hours.

If you require any further information please contact your local Garland Technical Manager.

Technical Characteristics (Liquid State)

| Property | Value | Method |
|--|------------------------|---------------------------|
| Viscosity | 180-250 mPa | DIN 53015 |
| Density D420 | 0.99 g/cm ³ | DIN 51757 |
| Flash Point | 10°C | DIN 51755 |
| Pot Life | Approx. 12-14 min | (20°C, 100g, 2% catalyst) |
| Processing Temperature (substrate temperature) | +0°C to +30°C | |
| Packaging | 10kg Metal Pail | |

Guideline Recipe

| Component | Guideline recipe (% by weight) | Comments |
|-----------------------|--------------------------------|--|
| Dura-Systems Membrane | 100% | Average consumption 0.5kg/m ² |
| Dura-Systems Catalyst | 1-6% | Refer to Dura-Systems Catalyst Dosages table |



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Catalyst Dosages

| Temperature | Dura-Systems Catalyst (%) | Pot life (min) | Hardening time (min) |
|-------------|---------------------------|----------------|----------------------|
| +0°C | 3 | 35 | 60 |
| +10°C | 2 | 20 | 50 |
| +20°C | 1.5 | 15 | 40 |
| +30°C | 1 | 10 | 40 |

Safety advice

Wear suitable protective clothing (gloves and goggles) when applying. Avoid contact with the eyes and skin. For further information, please refer to the safety data sheet

Shelf life

6 months if stored in the unopened original container in a cool (< 25 °C), dry and frost-free location. The optimal storage temperature is +15 °C to +20 °C. Do not expose to direct sunlight.

Disposal

Fully hardened material can be disposed of as domestic refuse.

Recycle completely empty containers

Dispose of liquid material as waste paint that contains solvents or other dangerous substances.

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