



Slow Reactivity, Hand-Applied Polyaspartic Coating, UV Stable

Description

PA-M is a 2-component, slow reactivity polyaspartic, that, unlike usual polyurea systems, it can be mixed and manually applied due to its moderated reaction speed while retaining a fast curing profile once applied. It is delivered in colourless or pigmented versions.

Thick layers possible with a single coat application. Improves corrosion resistance. Several test prove that these coatings inhibit corrosion in metal surfaces. Suitable for operating freezing rooms. Ideal for new construction and/or refurbishment where curing speed is essential.

Coverage

Coverage varies widely due to the porosity and profile of different substrates.

PA-M may be applied in 200 g/m2 thick coats in 2 to 3 coats, depending on the chosen pigmentation.

* Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and the type, condition, profile and porosity of the substrate.

Features & Benefits

- UV Stable Resin
- Thicker, single coat application.
- Slower Reactivity than most Polyaspartic Resins
- Fast curing, event at low ambiental temperatures.
- · Good adhesion properties
- High hardness and resistance, achieved with a single application.
- Excellent gloss and colour retention
- Aliphatic polyisocyante basis. No discolouration
- Good weathering resistance

Mixing

Pour part B into part A, stir and completely blend both components using a low-speed mixer using paddle mixer for a minimum of 3 minutes @ 300-400 rpm. Transfer mixed resin into a clean new bucket and mix for a 1 further minute.

Product Application

Apply by roller or spreader, when needed. Airless equipment is not recommended due to safety reasons.

Reaction rate increases with the size of the mixtures; therefore it is advised not to mix more amount of product than that can be easily applied in a <u>15 minutes period</u>. Oherwise, application could be difficult or the final appearance could be affected.

Reapplication

Usually desired thickness is achieved in a single coat

Moisture & Humidity

Recommended air temperature: 10°C to 30°C Recommended humidity: 40% to 90%

Environmental Conditions

PA-M should not be used or applied at temperatures outside of at range of <10°C to >25°C

*temperature control will be required if below this range, otherwise, this will effect the cure period, surface finish and strengths. Surface temperature must be at least 3°C above the dew point. Air temperature shoud be above 5°C and relative humidity at less than 70%,

Maximum application temperature is 40°C. Best conditions are 15°C to 25°C, these conditions should be maintained during all the curing time. Application should be carried out with plenty of air ventilation.

Substrate Requirements

Inadequate preparation will lead to loss of adhesion and failure. In coatings, there is a tendency for the finish to mirror imperfections in the substrate. Grinding or light self-contained shot blasting is therefore preferred. If in doubt, apply a test area first.

Requirements as follows:

- Flat and Smooth.
- Compact and Cohesive (Pull off test must show a minimum resistance of 1·4N/mm²).
- Minimum compressive strength of 25N/mm².
- Even and regular surface.
- Free from cracks and fissures. If any, they must be previously repaired (we recommend using Sindec Epoxy Crack Filler).
- Clean and dry, free of dust, loose particles, oils, organic residues, laitance and contaminants.

Oil & Grease

Isolated contamination should be removed using an appropriate degreaser, rinsed thoroughly, and allowed to completely dry. A coat of **OT-235 (Oil Tolerant Primer)** should then be applied (see separate datasheet)

Tool Cleaning

Tools and equipment should be cleaned whilst the resin is still wet using **Sindec Tool Cleaning Solution**

Return To Service

Under most conditions a light traffic is permitted about 2 hours after it is dry to touch. A normal use is recommended only the following day.

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General Maintenance

A daily water scrubbing is allowed. Solvents may seriously damage the surface.

Curing Times

Curing time depends strongly on the local conditions. Curing speed will increase with temperature and humidity. The following table gives approximate values for 200 g/m2 applications. Thicker coats will give longer curing times. Thinner coats will cure faster.

| Conditions | Touch Dry (h) | Touch Dry (h) |
|--------------|---------------|---------------|
| 25°C, 60% rh | 0,5 | 3 |
| 35°C, 30% rh | 0,5 | 5 |
| 6°C, 60% rh | 3 | 30 |
| -15°C | 24 | Several days |

Technical Information

| PRODUCT INFO BEFORE APPLICATION | | |
|--|--|---|
| | Component A | Component B |
| Chemical Description | Polyamine | Solventless aliphatic polyisocyanate |
| Physical State | Liquid | Liquid |
| Packaging Kits | Clear: 8 kg 2.7 kg Pigmented 9.7 kg | Clear: 5.3 kg 1.8 kg Pigmented 5.3 kg |
| Non-volatile content (%) approximate | 3.2 kg Colourless: 71 Pigmented: 75 | 1.8 kg 100 |
| Flash Point | 35°C | >100°C |
| Colour | Slightly Amber | Colourless |
| Mixing Ratio (Clear) | A = 100 by weight | B = 66 by weight |
| Mixing Ratio (Pigmented) | A = 100 by weight | B = 55 by weight |
| Mixture Properties | Density: 1.00 g/cm3 Viscosity: 200 mPa.s (clear), 800 mPa.s (pigmented) Non-volatile content: 82% (clear), 84% (pigmented) | |
| Pot Life (High temperature and humidity reduce pot life) | Temp | Pot Life (100 g, min) |
| | 25°C, 70%hr | 30 |
| Storage | Keep between 15°C an 30°C. Component A may crystialize if stored for protracted periods under certain conditions. If this occurs, it can be restored to its original conditions by heating it to 70-80°C and stirring it thororoughly. | |

Shelf Life 12 Months (if unopened)

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FINAL PRODUCT INFORMATION **Final State** Polyurethane/polyaspartic solid film Colour Colourless / Pigmented Hardness 60 (Shore) Shore D hardness after 7 day > 23°C **UV Resistance** Colour Stable under sunlight **Chemical Resistance** Contact Sindec Chamicals for information Elongation at break: 7% **Mechanical Properties** Tensile strength: 16 MPa Gloss 80-85% (at 60°)

Disposal of Containers

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the containes still have some material left, do not mix with other product before considering the risk of potential dangerous reactions.

Technical Advice

For further information on this or any other Sindec product, please contact our office.

Health & Safety

Before using this product, please ensure that you have received and read the product Safety Data Sheet. Refer to hazard labelling on the product. Wear gloves and avoid contact with skin and eyes.

Additional Information

The information contained in this document, and all further technical advice given is based on our present knowledge and experience. However, it implies no liability or legal responsibility on our part.

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