



MAGMA ACRYLICS (Pty) Ltd

Exclusively developed acrylic adhesive products

PRODUCT DATA

MAGMA BOND M1

Single Component Adhesive Thinner & Cleaner

1. PRODUCT NAME & GENERAL USE..

Magma Bond® M1 - is a clear thin bodied liquid used to adjust the viscosity of the adhesive. It is also used to prepare the area to be bonded, making it receptive to the adhesive which creates a stronger bond.

2. APPLICATION..

Can be used to reduce viscosity of ONE Component Solvent adhesives or TWO Component Polymerisation adhesives, plus with the added benefit for cleaning adherents to be bonded by means of a Solvent or Polymerisation adhesives.

3. TYPICAL VALUES OF PROPERTIES..

- Viscosity (Brookfield A/60/68°F/20°C): ~ 0.6 cp
- Density/68°F/20°C: ~ 0.94 g/cm³
- Refractive index n_D68: ~ 1.415
- Colour: Clear
- Boiling point: ~ + 212°F/100°C
- Flash point (DIN 51755): ~ + 50°F/10°C
- Explosion limits in air: 2.1 to 12.5 Vol. %
- Storage stability: 2 years after filling, if correctly stored
- Packaging materials: aluminium, HDPE, PP and glass

4. GUIDELINES FOR USE..

The viscosity of adhesives is adjusted so as to allow for their direct use. For certain applications it is helpful to dilute the adhesives beforehand. Reducing their viscosity allows for the following:-

- More rapid degassing because air bubbles rise to the surface quicker in diluted adhesive – advantageous for large quantities of adhesive composition.
- Better levelling, thinner adhesive layers and somewhat delayed skin formation – advantageous for bonding large surfaces (particularly of thin sheets) and drill holes.
- Better wetting out and degassing when embedding fibre mats and woven fabrics.
- More rapid filling of butt joints between thick blocks.
- Diluted adhesives enable shorter pot lives & polymerisation times (at higher hardener concentration), because degassing & processing can be performed more quickly than with undiluted polymerisation adhesives.

The viscosity required for a specific application must be determined by trial and error. As a general reference to all original Magma Bond adhesive products they should be diluted as little as possible.

5. ALTERNATIVE PRODUCT USE..

Magma Bond® M1 is well-suited for degreasing acrylic sheet surfaces prior to bonding. These are best wiped down with a clean white cloth or white paper towel soaked with **Magma Bond® M1**.

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6. SAFETY MEASURES & HEALTH PROTECTION..

Contains Methyl Methacrylate. Irritates the eyes, respiratory system and skin. May cause sensitisation by skin contact. Keep away from sources of ignition. Do not smoke. Wear suitable protective gloves. Avoid contact With the skin. In case of swallowing seek medical aid immediately.

PROCESS CONDITIONS

Use engineering controls to reduce air contamination to permissible exposure level.

ENGINEERING MEASURES

Provide adequate ventilation.

RESPIRATORY EQUIPMENT

Wear suitable respiratory protection.

HAND PROTECTION

Protective gloves should be used if there is a risk of direct contact or splash.

EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination.

HYGIENE MEASURES

Use appropriate skin cream to prevent drying of skin. Wash at the end of each work shift and before eating, smoking and using the toilet. When using chemicals do not eat, drink or smoke.



For further information refer to the relevant Health & Safety Data Sheet.

7. STORAGE..

Magma Bond® M1 - store in a dark and dry flame proof area in a temperature ranging from 5°C to 25°C.

8. SHELF LIFE..

24 months from date of manufacture stored under the above conditions.

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