# WonderMASK P Peelable Solder Mask

## Product# 2211

### Product Description

WonderMASK P is a temporary, peel-able solder mask comprised of a thixotropic, synthetic acrylic latex designed to withstand fluxing, wave soldering and cleaning operations. Unlike natural latex mask, it contains no offensive ammonia and hence is non-corrosive to copper, gold, silver or pre-soldered surfaces. In addition, stability problems are averted. When applied, the product is opaque pink, and when cured, becomes completely translucent red. Cured mask can be for masking conformal coatings. May be used in applications such as robotic, pneumatic, hand applied or template screening (not recommended for silk screening).

Techspray's WonderMASK is the industry-leading temporary solder mask brand because of quality and versatility. Depending on the product, mask can be peeled off manually or washed off in a batch or inline system.

WonderMASK has a number of useful applications in PCB assembly:

- Thru-hole masking – Prevent soldering open holes in a wave soldering process by covering with WonderMASK. All of the masks listed below are well suited for this application.
- Conformal coating masking – In a conformal coating dipping or spraying process, WonderMASK can be used to cover connectors and other components and areas that should not be coated.
- Temporary component adhesive – WonderMASK can be used to tack down components on double-sided PCBs.

All Techspray WonderMASK products have the following advantages:

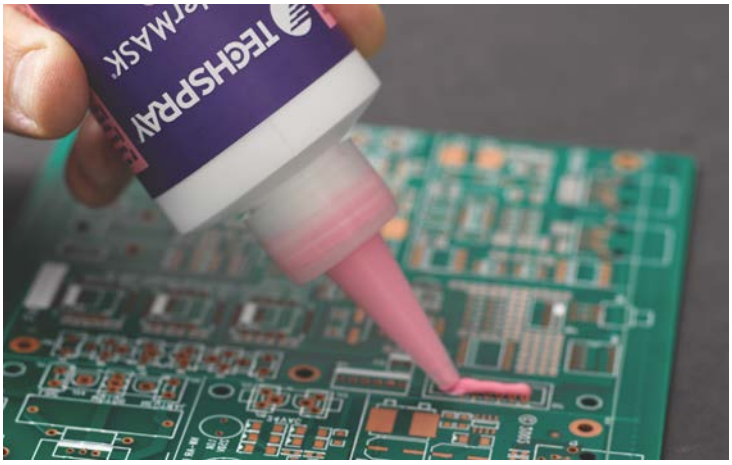
- Can be cured in pre-heat
- Withstands lead-free soldering temperatures up to 640°F (343°C) in wave soldering process
- RoHS compliant

### Features / Benefits

- **Non-ammoniated**
- **Nonflammable**
- **Easily peel-able**
- **Low odor**
- **Cure indicator - darkens as it cures**
- **Compatible with gold and copper leads**

### Usage Instructions

Apply a 20 to 30 mil coating for best results to desired area. The substrate should be free from flux, oil, and particulate matter. Drying times depend upon ambient humidity. Under normal conditions WonderMASK P is ready for preheating stage in 1 hour, however, cure can be accelerated to 30 minutes at 65˚C/150˚F or 20 minutes at 82˚C/180˚F. Do not over cure, as blistering of mask can occur, causing removal problems. Mask will change from an opaque pink to a translucent red when complete cure is accomplished. Mask does not have to be completely dry to withstand soldering operation; however, it should be completely translucent before removal.




### Typical Product Data and Physical Properties

| | |
|---|---|
| **Physical state:** | Liquid |
| **Color:** | Pink/red |
| **Relative density:** | 1 |
| **Shelf life:** | 2 years |

**Chemical Composition**

| Chemical Name | CAS# |
|---|---|
| Acrylic Latex Polymer | 27401-61-2 |
| LECIITHIN | 8029-76-3 |
| Alkoxylated alkylphenol | 9064-13-5 |
| Tetrakis-[methylene(3,5-di-tert-butyl-4-hydroxyhydrocinnamate)]-methane | 6683-19-8 |
| 2-Propenoic acid, telomere with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and sodium hydro | 97953-25-8 |

### Performance & Application Data

| | |
|---|---|
| Application | Template, hand, pneumatic, robotic |
| Viscosity | 28,000-30,000 cps |
| Suggested thickness | 20-30 mils |
| Thinner | DI water |
| Cure time | 1hr. Ambient, 30 min.@65˚C, 20 min. @82˚C |
| Removal | Peel-able |

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### Packaging and Availability

| | |
|---|---|
| **2211-8SQ** | 8 oz. Liquid |
| **2211-G** | 1 Gallon Liquid |
| **2211-5G** | 5 Gallon Liquid |
| **2211-54G** | 54 Gallon Liquid |

### Environmental Policy

Techspray® is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.

### Resources

Techspray® products are supported by a global sales, technical and customer services resources.

For additional technical information on this product or other Techspray® products in the United States, call the technical sales department at 800-858-4043, email tsales@techspray.com or visit our web site at: www.techspray.com.

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