



Wondermask® P

Peelable Solder Mask

2211

Introduction

Wondermask® P is a temporary, peelable 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).

Features / Benefits

Peelable Mask
Synthetic Latex
Non-Ammoniated
Quick Drying

Chemical Components

Deionized Water.....	(7732-18-5)	50-60%
Hydroxylated lecithin.....	(8029-76-3)	<2%
5-chloro-2-methyl-4-isothiazolin-3-one.....	(26172-55-4)	<<1%
Alkyl benzyl Phthalate.....	(68515-40-2)	
Alkoxyated Alkyl Phenol.....	Proprietary	
Nonylphenol Ethoxylate.....	(127087-87-0)	<3%
Magnesium Nitrate.....	(10377-60-3)	<<1%

Application	Cure Type	Cure Time	Removal	Viscosity	Suggested Thickness	Thinner
Template/Hand/ Pneumatic/ Robotic	Thermal	1 hr. Ambient 30 min @65°C 20 min. @82°C	Peel off. Dried mask is not soluble in liquids.	28,000-30,000 cps	20-30 mils	D.I. Water

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.

Packaging and Availability

Wondermask® P may be ordered in the following container sizes:

2211-8SQ	8 Ounce Squeeze Bottle
2211-G	1 Gallon in Plastic
2211-5G	5 Gallons in Plastic
2211-54G	54 Gallons in Plastic

Warranty Information

This product is warranted to authorized Techspray distributors to meet physical and chemical specifications for a period of 12 months from receipt of product.

Product questions can be answered by Techspray technical sales department at 800-858-4043 or tsales@techspray.com.

Resources

Techspray® products are supported by a global sale, 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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in your country.

Important Notice to Purchaser/User: The information in this publication is based on tests that we believe are reliable. The results may vary due to differences in tests type and conditions. We recommend that each user evaluate the product to determine its suitability for the intended application. Conditions of use are outside our control and vary widely. Techspray's only obligation and your only solution is replacement of product that is shown to be defective when you receive it. In no case will Techspray® be liable for any special, incidental, or consequential damages based on breach of warranty, negligence or any other theory.



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Product Information

Wondermask® P

2211 Temporary Solder Mask



Description:

Wondermask® P is a temporary, peelable 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 and will not stain substrates. In addition, stability problems, common in natural latex formulations, are averted. When applied, the product appears opaque pink, and when cured, becomes completely translucent red. Cured mask can be used in water or solvent systems and in masking for conformal coatings.

Excellent heat stability allows for prolonged exposure to high temperature without product degradation. This product may be used in most common forms of mask applications such as robotic, pneumatic, hand applied, or template screening (not recommended for silk screening).

Applications: *Protects Plated Through Holes and Contact Surfaces From Solder During Soldering Operations *Mask Desired Areas During Conformal Coating Applications *Gold Fingers *Card Edges

Features / Benefits

*Peelable Mask *Insoluble in Water or Solvent *Contains No Ammonia *No Offensive Odor *Cure Indicator *Indicates When to Remove *Anti-Static *Non-Tribocharging *Stable Formulation *Long Shelf Life *Non-Corrosive *Safe on Metals *Thixotropic *Stays in Place *Versatile *Multiple Applications

Directions:

Mask can be applied using robotic, pneumatic, hand applications (using Plastic Container, part number 1909- 8SQ), or template screening. Not recommended for silk-screening applications. Apply a 30 to 40 mil coating for best results to desired area. Wondermask® P may be thinned using deionized water. The substrate should be free from grease, oil, and particulate matter. Drying times depend upon ambient humidity. Under normal conditions Wondermask® P will cure in 1 hour at 25.C/77.F; 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. 2211 can be thinned with deionized water. Removal: Peel off. Dried mask

is not soluble in water or solvents.

Technical Specifications:

Chemical Components (CAS): Deionized Water, Acrylic latex polymer, Propylene glycol (57-55-6), Diazolidinyl urea (78491-02-8), Methylparaben (99-76-3), Propylparaben (94-13-3), Hydroxylated lecithin, Potassium salt of phosphate esters, Phthalate Ether (85-68-7), Dye, Acrylic copolymer

Technical Data: Flash Point: None, Viscosity: 28,000 - 30,000 cps, Non-Exempt Volatile Organic Compounds (VOCs): 27.5 g/l

Specifications: Meets MIL-STD-2000 paragraph 5.3.18 parts a,b, and d.

Availability:

2211-2SQ 2 Ounce Squeeze Bottle

2211-8SQ 8 Ounce Squeeze Bottle

2211-G 1 Gallon in Plastic

2211-5G 5 Gallons in Plastic

2211-54G 54 Gallons in Plastic

Tech Spray, Inc.

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