

# PRIMER PAR1 Data Sheet

High Performance Acrylic Primer And Crack Sealer

# **Product Description**

Primer PAR1 is a two component, fast curing, high strength methyl methacrylate reactive resin. It is formulated to form a very strong cohesive bond to substrates and seal surfaces.

#### Uses

Primer PAR1 is used to seal and prime concrete and wood substrates:

- prior to the application of Stirling Lloyd resin systems
- to seal and heal cracks in concrete decks
- to help consolidate weak surfaces

## Product Advantages

- Excellent bond to substrate, typically stronger than the cohesive strength of concrete surface
- Bond test allows for on site quality assurance
- Low viscosity makes it suitable for application by brush, roller and for priming and surface sealing spray. Note: we do not recommend spray for crack penetration
- Low viscosity enables good penetration into cracks and voids without excessive material consumption
- Elastic property permits some structural movement
- Fast cure, typically 20 minutes for foot traffic and 40 minutes for overcoating
- Working temperature range can be extended by simple site addition of Retarder or Cold Temperature Additive as required
- Working time can be extended by site addition of Retarder
- Easy to apply to horizontal and vertical surfaces
- Can be overcoated at any time no overcoating window limitations or repriming, abraiding
- Seamless, no cold joints, always bonds to itself
- Used over a wide temperature range, including below freezing. Note: when used for crack penetration, the product's higher viscosity at low temperatures may reduce its penetration into cracks
- USDA/FDA approved for Flooring applications



# **Physical Characteristics**

Percent Solid 100

Pot Life @ 68°F 10-20 minutes

Cure Rate @ 68°F 30-45 minutes

Overcoat Time 30-45 minutes

Tensile Strength 4,000 psi
Tensile Modulus 400,000 psi
Viscosity 50-80cps
Elongation 25-30%

# **Surface Preparation**

The substrate must be dry and free from oil, grease, dirt, bituminous and other contaminants. Unsound concrete and laitance shall be removed by appropriate mechanical means or acid-etching. Cracks to be sealed must be cleaned of debris and moisture by vacuum or compressed air.

#### **Bond Test**

Prior to full application of Primer PAR1, tensile adhesion tests shall be conducted to determine adequacy of substrate preparation and bond. The nond of the primer to the substrate should be greater than the tensile strength of the substrate. In the case of concrete, this should results in concrete and fractured aggregate being attached to the test dolly with failure at a 100lpsi or higher. If low values are obtained, and only laitance or a small amount of substrate is attached, further preparation is required.

# **Application**

## 1. Surface Priming & Sealing

When used as a surface primer/sealer, the product can be applied by brush, roller or spray. The appropriate amount of Hardener Powder is determined by the GCP Mixing Guide and is a function of the material and substrate temperature. The Hardener Powder is added to the resin and thoroughly dispersed.

# 2. Crack Sealing

When used as a crack sealer, Primer PAR1 is applied direct to the cracks via suitable dispensers as recommended by our Technical Services Department. The material is introduced directly to the crack aperture and allowed to pond, enabling the resin to penetrate into the crack. We do not recommend spray application for this purpose.

# Packaging and Storage

PAR1 Primer 4.7 gal kits

Store in a cool, dry place, out of direct sunlight. Do not store near open flame or food. Primer PAR1 has a shelf life of 6 months in the original unopened container



# Coverage

For application as a full surface primer/sealer prior to application of a GCP resin system or for consolidating a surface Primer PAR1 is applied in one coat at a rate of 80–175 ft<sup>2</sup> per gallon, depending on the porosity of the concrete. Very porous substrates may require a second application.

Consumption rates for sealing cracks can vary considerably, and a test area should be installed before commencing work to help determine likely coverage rates.

# Cleaning

All tools and equipment should be cleaned with acetone before the material is allowed to cure.

#### **Precautions**

Primer PAR1 liquid resin components are classed as flammable liquid (flashpoint 52.7°F) and should be handled accordingly. Workers should wear protective clothing. Adequate ventilation must be provided. Read and understand all Material Safety Data Sheets prior to commencing work.

The resin cannot be thinned with the additions of any solvents.

# Health & Safety

Users must read and understand the product label and Safety Data Sheet for each system component before use. All users should acquaint themselves with this information prior to working with the material. Carefully read detailed precaution statements on the product labels and SDS before use. SDS's can be obtained from the GCP website at qcpat.com or by contacting GCP toll free at 1–866–333–3SBM(3726)

#### gcpat.com | North America customer service: 1-866-333-3726

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