BUILDING TRUST

PRODUCT DATA SHEET

Sikagard® P 1801

(formerly MProtect P 1801)

Phenol-Novolac Epoxy Amine-cured Primer

DESCRIPTION

Sikagard® P 1801 is a two-part, deep penetrating phenol-novolac based epoxy primer. For use on concrete with Sikagard®-1825 protective coating system. Suitable for use in hot and tropical climatic conditions.

USES

Sikagard® P 1801 is designed for applications on cementitious substrates to provide a strong, tenacious bonding with subsequent chemical-resistant coatings or mortars.

FEATURES

- Fast curing
- Excellent penetration properties
- Exellent overall chemical resistance
- Improves bonding with Sikagard® systems
- Highlights pinhole & blowhole defects in concrete substrates

PRODUCT INFORMATION

Packaging	Part A	4.125 kg container
	Part B	0.49 kg container
	Part A + B	4.615 kg
Shelf life	Part A: 12 months Part B: 12 months From the date of production if stored properly.	
Storage conditions	Store in unopened, undamaged and sealed original packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight, heat and moisture.	
Density	Part A+B mixed ~1.15 kg/l (+20 °C)	
Solid content by volume	~69%	

TECHNICAL INFORMATION

Tensile adhesion strength	>1.5 N/mm²	ASTM D4541

APPLICATION INFORMATION

Consumption	~0.20 kg/m² per layer

Ambient air temperature	+10 °C min. / + 40 °C max.
Relative air humidity	<80%
Substrate temperature	+10 °C min. / +40 °C max ≥ 3 °C above dew point, beware of condensation
Substrate moisture content	< 4%

Pot Life

Temperature	Time
+25 °C	~60 minutes
+40 °C	~25 minutes

Curing time	7 days at +25 °C

Waiting time to overcoating

Temperature	Min.	Max.
+25 °C	2 hours	10 hours
+40 °C	55 minutes	80 minutes

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Do not apply Sikagard® P 1801 on substrates with rising moisture.
- Freshly applied Sikagard® P 1801 should be protected from damp, condensation and water for at least 24 hours.
- For external applications, apply during falling temperatures. If applied during rising temperatures “pin holing” may occur from rising air.
- Do not use in water immersion over 60 °C.
- When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the application is cured. In addition to ensuring proper ventilation,appropriate respirators must be used by all application personnel in confined spaces.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

- The substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

MIXING

Prior to mixing stir part A mechanically. When all of part B has been added to part A mix continuously for 2 minutes until an uniform mixed has been achieved. Use a low speed electrical stirrer (300 - 400 rpm) to avoid air entrapment. Excessive mixing must be avoided to minimise air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a straight edge trowel or spatula at least once to ensure complete mixing. Mix full units only.

APPLICATION

Prior to application, confirm substrate moisture content, relative air humidity, dew point, substrate, air and product temperatures.
Apply Sikagard® P 1801 onto the prepared substrate evenly using a roller, brush or airless spray at the required consumption rate. Make sure that a continuous, pore free coat covers the substrate. For highly porous concrete substrates, consider applying two priming coats.

CLEANING OF EQUIPMENT

Clean all tools with xylene immediately after use. Hardened and/or cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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