Baytec™ Prime 144

Bayer MaterialScience

Primer
Technical Datasheet: 06/13/08

Product Description

Baytec Prime 144 is a 100% solids two component primer for concrete or steel. It is designed to penetrate and strengthen concrete substrates. Adhesion is exceptional even to damp concrete. Baytec Prime 144 provides an exceptional surface for the application of polyurea, epoxy, acrylic or polyurethane coatings. Its' solvent free nature ensures there are no voids formed during the curing process.

Baytec Prime 144 is Alklai resistant and can be placed over latence free concrete that is older than 72 hours.

Application and Handling

Thoroughly mix two (1) parts hardener to three (3) parts resin (A side) by volume (2 gal to 3 gal.) Stir until curing agent is completely dispersed, aproxamitaley five (5) minutes.

Baytec Prime 144 may be applied by conventional airless spray equipment, medium nap rollers or brushes. Airless spray application is most efficient whereas rolling or brushing may be used for touch up, flashing and edge terminations, pinholes, holidays or cracks. CONTACT BAYSYSTEMS TECHNICAL PERSONNEL FOR SPECIFIC RECOMMENDATIONS, PRICING AND AVAILABILITY OF SPRAY AND AUXILIARY EQUIPMENT.

Apply Baytec Prime 144 only to clean, dry, sound surfaces free of loose particles. Remove dust, dirt, oil, laitance, curing compounds, concrete sealer, rust, and other particles from surface with power washing, acid etching, grit blasting or profiling equipment.

Apply at a rate of 2/3 gallon per 100 square feet. For green concrete apply at a rate of one (1) gallon per 100 square feet.

When applying to concrete, the surface is to be clean, hard/dense, free of cracks and holes with a slightly roughened surface.

It is recommended that Baytec Prime 144 be spray applied in multi-directional (north-south/east-west) passes to ensure uniform film build and to avoid pinholing. Final cured dry film thickness must be free of holidays, cracks or blisters. COATING APPLICATION MUST BE SUSPENDED IMMEDIATELY AND BAYSYSTEMS TECHNICAL SERVICE PERSONNEL CONTACTED IF THE RESULTS OBTAINED ARE LESS THAN DESIRABLE.

Discard unused portion of mixture after 90 minutes. Material may appear normal, but physical properties will be adversly affected after the end of pot life.

Typical Physical Properties

Property	Value
Solids by Weight::	100%
Solids by Volume:	100%
Wieight:	8.9 lbs/gal.
Theoretical Coverage :	100-132 s.f./gal
Number of Components:	Two
Color:	Orange
Pot Life:	90 minutes
Surface Temperature:	>40ºF
Adhesion (Damp Concrete):	>500psi

Wet Physical Characteristics

Mix Ratio:	2 "B" : 3 "A"
Mixed Viscocity:	1350 cps
Shelf Life:	12 month if properly stored
Clean Up:	NMP
Thinner:	Not Recommended

Note: Adhesion should not be tested within one hour of application

Product Reactivity

100 Gram mass:	140 minutes
Tack Free Time:	5.5 hours
Recoat:	8 hours dependant on enviromental conditions

Note: Must be recoated within 7 days.

Test values may vary depending on type of equipment, equipment settings and environmental conditions.

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Limitations and Precautions

Do not apply Baytec Prime 144 when temperatures fall below 40ºF or when there is a possibility of temperatures dropping below 40ºF within a 24 hour period after application. Do not apply over wet substrates or when inclement weather is imminent. High relative humidity will retard drying.

NOTE: Application and drying of any product can reduce the temperature by as much as 20ºF due to evaporative cooling (i.e., applying water based material at 50ºF can result in a 30ºF temperature).

It is extremely important that Baytec Prime BL is totally cured before proceeding. Total cure may be prolonged drastically by high humidity and cool ambient temperatures.

General Safety, Toxicity, Health Data

Material Safety Data Sheets are available on this coating material. Any individual who may come in contact with these products should read and understand the M.S.D.S. In case of emergency contact CHEMTREC EMERGENCY NUMBER at 800-424-9300.

CONTAMINATION: Avoid moisture contamination in containers. Containers should not be released if contaminated. Do not attempt to use contaminated materials.

EYE PROTECTION: Safety glasses, goggles, or a face shield are recommended.

SKIN PROTECTION: Chemical resistant gloves are recommended. Cover as much of the exposed skin area as possible with appropriate clothing.

RESPIRATORY PROTECTION is MANDATORY! Respiratory protective equipment, impervious foot wear and protective clothing are required at all times during spray application. Contact BaySystems for a copy of the Model Respiratory Protection Program developed by API.

INGESTION: Do not take internally. It is believed that ingestion of polymeric isocyanates would not be fatal to humans, but may cause inflammation of mouth and stomach tissue.

Consider the application and environmental concentrations in deciding if additional protective measures are necessary.

Disclaimer

The data presented herein is not intended for non-professional applicators or those persons who do not purchase or utilize this product in the normal course of their business.

The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer. The aforementioned data on this product is to be used as a guide and is subject to change without notice.

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