

Prime-R™ Concrete Primer and Sealer

Odor-less, Low VOC

Prime-R is used to prevent efflorescence and create a good bond of the coating to the concrete surface. It is based on a small particle sized, hard polymer to seep into the concrete surfaces to thoroughly prime and seal it.

Chemical Nature

Concrete Primer and Sealer

Benefits

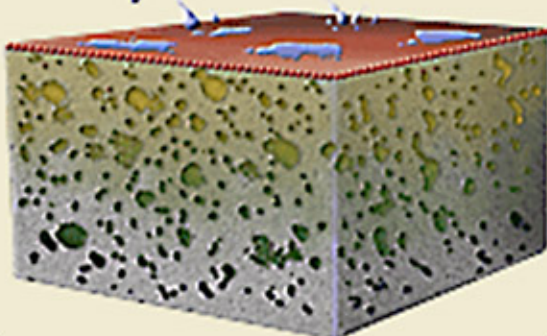
- Prevention of topcoat defects
- Ideal for application on high-alkaline concrete
- Reduce overall material and labor cost
- Small particle sized to seep into concrete
- Good bond coat for topcoats
- 100% Waterproof

Features

- Excellent alkali and efflorescence resistance
- Outstanding water resistance, imparts a physical barrier to water transport
- Chemical barrier to salt migration
- Excellent substrate penetration and promotes topcoat adhesion



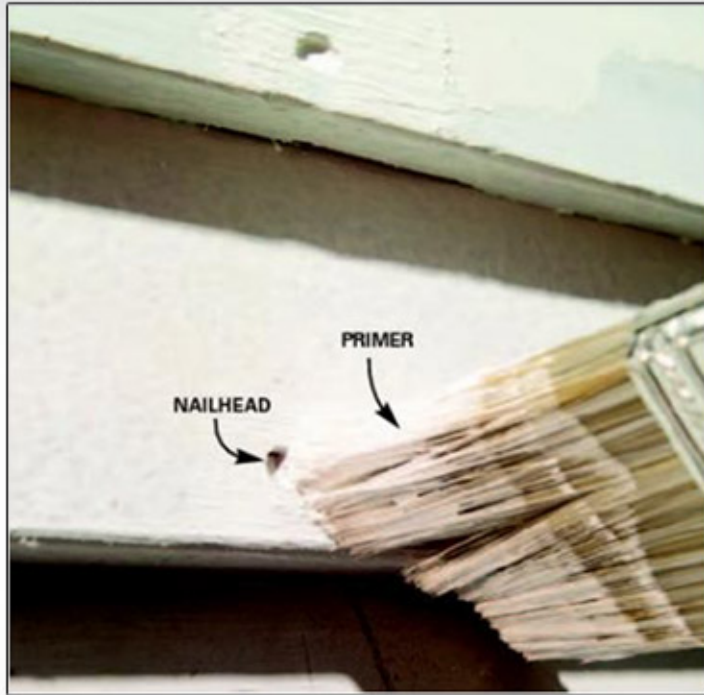
CONCRETE
with **Prime-R™**



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Efflorescence typically occurs during the initial cure of a cementitious product. When water moving through a wall or other structure, or water being driven out as a result of the heat of hydration as cement stone is being formed, brings salts to the surface that are not commonly bound as part of the cement stone. As the water evaporates, it leaves the salt behind, which forms a white, fluffy deposit. The resulting white deposits are referred to as "efflorescence" in this instance.

Prime-R is packaged ready to use and has a milky white appearance that dries to a clear transparent film that creates a good bond for the next coating. Using Prime-R concrete primer and sealer actually saves you time and money by saving you on succeeding coats.

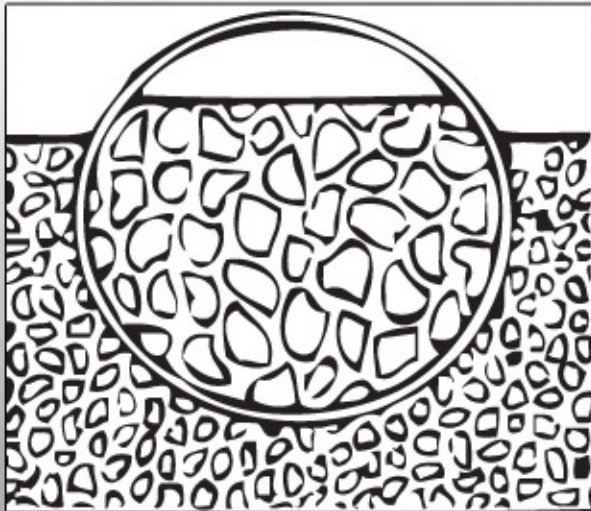


An example would be if you use any paint on bare concrete surface – you will use up around roughly 16-17 square meters per gallon. But with Prime-R, you will get roughly around 20+ square meters per gallon (A saving of more than 10%).

Another benefit you get from using Prime-R is that it lower your overall labor cost. One coat application can be topcoated in around 2-3 hours depending on weather. Unlike other primers that have to be recoated by the next day – Prime-R saves you time and money thereby lowering your overall labor cost. It is packaged ready to use and can be applied by brush, roller or spray.

In addition, Prime-R gives you excellent waterproofing properties – it forms a durable, tough film on all the concrete surface that resists weathering and prevents stains from forming on your topcoat film.

Before



Spaces between particles leave untreated concrete subject to penetration by moisture, oils, acids, etc.

After



Prime-R concrete primer and sealer, penetrates into the concrete where it reacts with free lime and alkali to fill the voids and bond the particles into a solid mass, creating a permanent seal.

Prime-R! Before you paint.

Prime-R™ Concrete Primer and Sealer

Areas of Application

Primer and sealer for mineral substrate

Prime-R is an engineered acrylic solution that dries up to make a colorless and clear film over your concrete. You can apply it on any concrete surface --- in driveways, garages, pool decks, and walls. It can be used inside the home or building as long as the room is well-ventilated to eliminate the slight smell of the solution.

The concrete clear sealer is resistant to stain, acid, oil, and other chemicals. Other advantages of Prime-R is that it is ultraviolet resistant as well as abrasion resistant. So not only does it give a "new and fresh look" to your concrete when you're finished, it also protects the concrete from any damages from chemicals and hard impact.



Preparation

Preparing to use and apply the concrete sealer on your concrete requires some hard work and patience. Surfaces with cracks and holes must be filled and patched first. The concrete surface must be solid before you get to apply the clear sealer. The concrete surface has to be clean and devoid of dirt or other substances that could affect adhesion. For nonporous surfaces, it is recommended that the owner clean it with muriatic acid, which is rinsed thoroughly afterwards.

Get every help you can get in your cleanup phase before applying Prime-R. Household cleaning products such as a stiff broom, a garden hose, and bleach and de-greaser will do well. Basically you need to de-grease the surface and remove oil stains. Next, you remove any mold or mildew in the concrete. The concrete has to be entirely clean or any alien substances. Lastly, for this preparation, use a stick broom to remove any residues that were left over.

Remember to wear protective goggles when preparing and applying the concrete clear sealer. You should also wear gloves and some protective clothing. The mixture may not be harmless to your skin and may cause itchiness or rashes. Also remember not to add detergents or ammonia to the bleach and water solution for a better cleanup.

When applying Prime-R, make sure you stir it well, both before and during applying it to the concrete surface. Bear in mind that you should only apply it when the surface and air temperatures are above 40°F. It is also best if you apply it on a temperature that doesn't exceed 90°F because this will cause premature drying with bubbles forming from trapped vapors.

Use an airless sprayer when applying Prime-R. You can also use a cure roller or plain brush. But do not use a hand sprayer. After using it, make sure you seal the container tightly.

The preparation and application of Prime-R to your concrete surface is fairly easy when you've understood the instructions. All it needs to finish the job is work and patience in doing it.

Processing

Customers have to carry out small test on concrete surfaces to make sure Prime-R works for them or not. Cambridge can give a small quantity for testing purposes and/or a product representative will conduct product demonstration and presentation on site.

The compatibility of Prime-R to other topcoats made by other manufacturers, its effect and its adhesion to other substrates etc. are affected by a variety of factors which are too numerous for us to take into account on our own trials. This includes testing its storage stability to confirm that its viscosity remains stable.

General

The usual precaution in handling chemicals must be observed. These includes the measures set out in the guidelines of the organizations responsible for safety at work, in particular, good ventilation and fume extraction at the workplace, care of the skin and wearing eye protection.

Safety Data Sheet

When using this product, the information and advice given in our Safety Data Sheet should be observed. Due attention should also be given to the precautions necessary for handling chemicals.

Labeling

According to all the data at our disposal, Prime-R does not need to be labeled as a dangerous substance or preparation as defined in the relevant local directives according to their current status.

Prime-R must not be allowed to come into contact during storage with metals or alloys that are susceptible to corrosion. It is important to ensure that containers are tightly sealed. This product must not be exposed to high temperatures, and it must be protected from frost.

Prime-R has a shelf life of one year at 10°C-30°C when unopened and three months at 10°C-30°C when opened.

NOTE

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure any propriety rights and existing laws and legislation are observed.

Prime-R™

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No. 1319326



Corporate Pledge Driver

U.S. GREEN BUILDING COUNCIL A nonprofit organization committed to a prosperous and sustainable future for our nation through cost-efficient and energy-saving green buildings. USGBC works toward its mission of market transformation through its LEED green building certification program, robust educational offerings, a nationwide network of chapters and affiliates, the annual Greenbuild International Conference & Expo, and advocacy in support of public policy that encourages and enables green buildings and communities.

ASTM International, originally known as the American Society for Testing and Materials (ASTM), is one of the largest voluntary standards development organizations in the world—a trusted source for technical standards for materials, products, systems, and services. Known for their high technical quality and market relevancy, ASTM International standards have an important role in the information infrastructure that guides design, manufacturing and trade in the global economy.

ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices. Results are already adding up. Americans, with the help of ENERGY STAR, saved enough energy in 2009 alone to avoid greenhouse gas emissions equivalent to those from 30 million cars — all while saving nearly \$17 billion on their utility bills.



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