

BEECK Mineral Paints

a Historic Building Products, LLC Company

V180427

Naturacoat SC 20 / Naturacoat SC 20 Clear, by Beardow Adams AB

Product Information

Naturacoat SC 20 is a completely reversible protection system against graffiti and other soiling, as well as airborne contamination (CO₂, soot, etc.) for facades and walls both indoors and outdoors without limiting vapor permeability.

Naturacoat SC 20 is comprised of vegetable polysaccharides and water, meaning that it is absolutely harmless to animal life and the environment.

Naturacoat SC 20 is sprayed on to the wall, typically in two or more coats with an airless spray gun, where upon drying it forms an extremely thin protective film. It is normally invisible to the naked eye and is fully breathable. Naturacoat SC 20 Clear is the clear version of Naturacoat SC 20 and is ideal for high gloss substrates and surfaces such as glass, plastic and signage where unimpeded visibility is required. Naturacoat SC 20 is best when applied by a skilled tradesman.

Application Areas

Naturacoat SC 20 can be applied to all substrates. For absorbent substrates, Naturacoat SC 20 can be applied directly to the substrate. For water repellent and non-absorbent substrates, it may be necessary to pre-treat the substrate with Naturacoat SC 20 Primer. Naturacoat SC 20 is not to be used on any walking surfaces (when wet, a substrate treated with Naturacoat SC 20 will be extremely slick). Naturacoat SC 20 protects many important structures worldwide with a variety of substrates including all kinds of natural and artificial stone, concrete, brick, aluminum and other metal surfaces, glass and plexiglass, stucco as well as facades coated with mineral paints.

Product Properties

- Appearance: Clear to slightly cloudy liquid
- Zero VOCs
- Boiling point: 100°C
- Specific weight: 1.0-1.1
- Flammability: Non-flammable
- No toxic gases produced on decomposition by heat
- Water vapor permeability: According to DIN 52615: Sd-value 0.012m (Approx. 80 perms)
- pH Value: Approx. 6.5
- Completely reversible by means of hot water.
- Naturacoat SC 20 normally only impedes the sound absorption capability of noise protection walls to an insignificant degree (Test Deutsche Bahn, FT - Centre Munich, of 20.02.98)
- High alkaline conditions are generally to be avoided.
- Naturacoat SC 20 and Naturacoat SC 20 Clear are manufactured according to ISO 9001:2000 and ISO 14001:2004.

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Application Instructions

Prior to application of Naturacoat SC 20, the substrate must be cleaned and free of all dust and other (oil/grease/silicon) contamination. Absorbent substrates should be pre-wetted, allowing Naturacoat SC 20 to form its protective coating on the surface with as little as possible penetrating into the substrate. Non-absorbent substrates must be dry before applying Naturacoat SC 20.

Naturacoat SC 20 is normally applied in two or more coats using an airless spray gun at a pressure between 1450 - 2900 PSI (100 - 200 bar). It is best to spray in an overlapping vertical and horizontal pattern. In order to provide protection, Naturacoat SC 20 must form a continuous film on the surface. Depending on the texture of the substrate, consumption should be between 200 – 400 sq.ft. per gallon per coat (52 – 105 sq.ft. / liter / coat). After drying, the protective film should have a layer thickness between 1.18 – 1.38 mil (0.030 – 0.035 mm).

Naturacoat SC 20 should not be applied at temperatures greater than 95°F (35°C) or below 41°F (5°C) both ambient and substrate temperature. If the surface is too hot during application, rapid evaporation can occur and it is possible to experience problems binding Naturacoat SC 20 with the substrate being treated. If the temperatures are too cold during application, there is a risk of the Naturacoat SC 20 film freezing on the surface before its transition to a solid state. Do not apply in direct sunlight or onto sun-heated surfaces. Protect all coated surfaces from direct sunlight, wind and rain during and after application until the Naturacoat SC 20 is completely dry.

Drying times will depend on the weather, temperature and humidity. Generally the minimum drying times are 1 – 4 hours between coats (must be dry to the touch before next coat is applied) and 12 – 24 hours until completely dry.

Surfaces with a high pH (alkaline), e.g. new concrete, may cause the Naturacoat SC 20 to yellow. Typically this yellowing can be removed by rinsing the surface continuously with cold water until the yellowing has disappeared. Never use high pressure when trying to remove the yellowing. Optionally or in severe cases, apply a mixture of 1 part sodium bisulfate and 25 parts clean water with a low pressure sprayer.

Naturacoat SC 20 Primer

On water repellent and non-absorbent substrates, Naturacoat SC 20 Primer must be applied to lessen the surface tension and allow for proper adhesion of the Naturacoat SC 20. The Naturacoat SC 20 Primer is often used on high glossy material, plastics and glass, together with Naturacoat SC 20 Clear.

Use an airless paint sprayer at around 20 bar (290 PSI) for the best results (optionally for small areas, use an HVLP spray gun). It is important not to spray too much Naturacoat SC 20 Primer onto the surface. Consumption is approx. 2000 sq.ft. per gallon (525 sq.ft. per liter). Let the Naturacoat SC 20 Primer dry before applying Naturacoat SC 20.

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Graffiti Removal

Graffiti on the Naturacoat SC 20 protective film can be easily removed with hot water, without the need for chemicals. The surface should be saturated for several minutes using hot water approx. 160° F. In cold weather, this process may take longer. Once the Naturacoat SC 20 has swelled to a gel state, removal can begin.

Use a hot water pressure washer for removal. It is best to use a wide angle tip, holding the wand at a 30-45° angle to the surface, working around the area you wish to remove from all sides. Maintain a minimum distance of 8" between the nozzle and the surface. Always adapt the pressure and temperature to the surface. The surface should never be damaged by water temperature or excessive water pressure. For harder surfaces such as granite, pressures from 700 – 1400 PSI. For painted surfaces, limestone, sandstone, brick and other masonry, 140 – 300 PSI is generally acceptable. Using the lowest possible pressure to achieve results will help to minimize clean up after removal is complete.

Clean surfaces should be thoroughly rinsed with water prior to reapplication. Porous absorbent surfaces can be immediately recoated. Non-absorbent, smooth surfaces should be allowed to dry according to the application instructions found earlier in this document.

Cleaning Tools & Equipment

All tools and equipment should be thoroughly cleaned with water immediately after use. If in constant use, the airless equipment should be flushed through with water at least once a week.

Packaging

1.3 Gallon (5L) and 6.6 Gallon (25L) containers

Transportation and Storage

Naturacoat SC 20 and Naturacoat SC 20 Clear are water based and should be protected from freezing. Shelf life is approximately 12 months when stored in a dry frost-free room between 41 and 68°F (5 and 20°C) in sealed unopened containers. Protect from heat and direct sunlight.

Safety Information

Naturacoat SC 20 is slippery in the liquid state and when wet. Naturacoat SC 20 should only be used on vertical surfaces. Any Naturacoat SC 20 spilt on the ground must be immediately removed and the ground thoroughly washed down with water. Protect eyes and skin from splashes. Keep out of reach of children.

The information in the product data sheet is based on our experience and testing. It represents the latest information available at the time of printing, but no guarantee of its accuracy is made or implied, nor responsibility taken for use to which this information may be put. Recommendations for application, either verbal or written, are intended to provide assistance in the selection of product and do not establish a contractual relationship. The applicator should establish for themselves the suitability of the product for their intended application. We reserve the right to alter or update information parameters and formulations at any time without notice.