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SALT-BLOC CHLORIDE BARRIER

1. PRODUCT DATA

Date of Preparation: March 16, 2023
Product Name: Salt-Bloc Chloride Barrier
Producer: Diedrich Technologies,
A Hohmann & Barnard Company,
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This product is manufactured for Commercial/Industrial use. *Not recommended for: Household use.*

2. PRODUCT DESCRIPTION

DIEDRICH SALT-BLOC is an all purpose deeply penetrating siloxane water repellent and chloride barrier for concrete and masonry. SALT-BLOC is formulated to react chemically with the silica in the substrate resulting in a hydrophobic reaction. SALT-BLOC protects against the intrusion of moisture causing efflorescence, leaching, mildew, atmospheric staining, chemical attack of chloride salts thus reducing rebar and wire mesh corrosion, and freeze/thaw spalling. SALT-BLOC has excellent resistance to acids and alkalis and is resistant to the detrimental effects of acid rain and carbon buildups. SALT-BLOC is ideal for use on horizontal surfaces such as sidewalks, driveways, concrete and brick pavers and tiles. SALT-BLOC may also be used on retaining walls, bridge pilings and other vertical applications. SALT-BLOC protects against deep-seated stains caused by mud splashes and other water-borne contaminants. Diedrich SALT-BLOC proves highly effective in coastal areas in protecting surfaces from airborne salts.

3. LIMITATIONS

SALT-BLOC may not be suited for application to some surfaces, ie., gypsum plaster or synthetic resin paints and other non-masonry surfaces. TEST APPLICATIONS MUST ALWAYS BE CONDUCTED. It is not recommended to paint over surfaces treated with SALT-BLOC. Slight darkening of some surfaces may occur. Do not use SALT-BLOC on surfaces subject to constant water spray (car washes, water fountains). SALT-BLOC will not compensate for design, structural or material defects and deficiencies. SALT-BLOC can be applied when air and surface temperatures are 20°F or higher. Products are to be stored in sealed containers and kept away from extreme heat.

4. PRECAUTIONS

SALT- BLOC's formulation incorporates blended solvent and must be handled as such. Good ventilation must be provided to prevent accumulation of fumes and never used near extreme heat, open flame or fire. If application is to the exterior of an occupied building, close and cover all exterior air conditioning vents during application. Clothing contaminated with SALT-BLOC should be removed as soon as possible.

KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

5. APPLICATION

Preperatory Work: A test application must be conducted to determine compatibility, application rate and required water-repellency. Application must be done using the same equipment as would be used during full scale application. Individual surface types must be tested. Inspection of the test areas should occur after the surface has thoroughly dried. The test patch should be available for inspection and approved by the architect then remain as the standard for the project. New concrete should be allowed to fully cure before applying SALT-BLOC. If condensation or moisture is present do not apply SALTBLOC.

Curing New Concrete: It is recommended to use blanket or water curing when feasible. If a chemical curing compound is to be used, a dissipating curing agent is recommended avoiding over application of the agent. Surface films and other contaminants must be removed before application of SALT-BLOC. Most curing agents and/or their residue may be removed using DIEDRICH ASPIR-SOLV.

Adjacent Areas: Vegetation should be protected by covering to protect in the event of overspray and/or excessive runoff. Adjoining glass, anodized aluminum, metal, painted surfaces, asphalt floor tiles, or shingles should be covered and protected. [Accidental splashes and/or overspray should be removed immediately by wiping with "OMS" pure mineral spirits or ASPIR-SOLV before the

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solution dries and bonds on the surface.] Surfaces should be clean, sound and free of carbon, dirt, oil and grease. Remove loose and or deteriorated mortar and repoint, cracks and voids larger than 1/16" should be patched and allowed to dry for 72 hours before application. After caulking allow 6 – 12 hours for curing (or until material is set). If efflorescence or alkali deposits are present, they must be removed and neutralized with the appropriate Diedrich Masonry Cleaner 101WN, 200, 202, 202V before applying SALT-BLOC water repellent.

6. METHODS

SALT-BLOC should be applied as packaged, do not alter or dilute the product. To insure uniformity and even solids distribution the product must be thoroughly mixed before application.

Application Technique: There is a human tendency to use quick arm movements while spraying a mist to the point darkening the substrate. This is not sufficient in applying the amount of material required to achieve optimum product performance. The best method to achieve sufficient product application is a "wet on wet" application. This begins with a mist application, using slow arm movements to break surface tension which results in a darkening of the surface; followed by a seond application to the point a 6" to 8" (floodcoat) rundown on a vertical surfaces. On a horizontal surface enough product should be applied so that it stays wet for a few minutes prior to penetration into the surface. This is the proper procedure required for ultimate performance in accordance with Diedrich specifications.

Horizontal Application: ***When applied to a horizontal surface product should be applied in a single saturating application.*** Care must be taken to insure sufficient material is applied so the surface stays wet for a few minutes prior to penetration of the surface. If pooling or puddles occur they should be broomed out until they thoroughly penetrate into the surface.

Vertical Application: SALT-BLOC requires different application methods than standard materials. Ideally, low volume (50 psi maximum) airless spray equipment. should be used for application such as the DIEDRICH ACID EXPRESS PUMP. A flood coat of 6" to 8" run-down, working bottom to top, should be employed. The material requires two, "wet on wet" applications to achieve the best results on porous surfaces. On very dense mirror-like polished surfaces, a single saturating application should be applied.

If a brush or roller is used for the application, extra care should be taken to assure sufficient material is applied to saturate the surface thoroughly. Heavy runs or drips should be brushed out if they do not penetrate. [Adjacent surfaces such as windows, frames, etc., must be wiped clean of overspray, runs and splashes immediately with "OMS" pure mineral spirits or ASPIR-SOLV as sealer may dry and bond to the surface.]

7. COVERAGE

Varying porosity and texture of masonry surfaces dictate the amount of material required for effective treatment. The following is only a guide for estimating the amount of material necessary for the various surfaces. A TEST PATCH MUST BE CONDUCTED TO DETERMINE ACCURATE RATES OF APPLICATION.

CLAY BRICK/PAVERS:
100-150 sq. ft./gal

CEMENT BRICK PAVERS:
100-150 sq.ft./gal

SMOOTH CONCRETE:
Precast: 127-175 sq. ft./gal.
Steel Troweled: 125-175 sq. ft./gal.
Exposed Aggregate: 100-150 sq. ft./gal.

Paint Adhesion: While not recommended, Diedrich SALT-BLOC can be painted over using silicone emulsion and oil-based paints. TEST MUST BE CONDUCTED TO ASSURE PROPER ADHESION IS ACHIEVED. Mineral and cementitious coatings and cement plasters should be applied and allowed to cure before application of DIEDRICH SALT-BLOC.

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