



DATA SHEET NO. 3470-000

PENTREAT™ 244-100 Water Repellant Penetrating Sealer

DESCRIPTION

PENTREAT 244-100 is a reactive, penetrating, 100% active silane sealer that inhibits water and chloride ion penetration in concrete and masonry structures. PENTREAT 244-100 is a hydrophobic, impregnating sealer that helps prevent chloride-induced corrosion of rebar, scaling, spalling, freeze-thaw damage, and other causes of debilitating concrete.

USES

PENTREAT 244-100 is designed for use on horizontal, vertical, overhead, new and existing concrete and masonry above-grade surfaces. Suitable applications include residential commercial, industrial, and municipal projects. PENTREAT 244-100 can be used on all types of concrete, including parking structures, driveways, plazas, patios, walkways, median barriers, bridge decks and piers, ramps, traffic barring concrete, marine structures, vehicular repair and wash down facilities, and loading docks.

FEATURES/BENEFITS

- High-performance, breathable, reactive, penetrating, superior water repellent sealer.
- Provides an effective chloride screen.
- Keeps treated surfaces cleaner.
- Minimizes penetration from de-icing chemicals, salt, water, etc. that may damage concrete/masonry surface.
- Reduces spalling of new concrete surfaces.
- Will extend the life of concrete and masonry structures.
- Penetrates deeply for maximum protection.
- Seals pores and capillaries of substrate, preventing liquid absorption while allowing excellent vapour transmission.
- Leaves no residue/Requires no cleaning after application.

PACKAGING

18.9 Litre (5 Gal.) Pails
208.2 Litre (55 Gal.) Drums
908.5 Litre (240 Gal.) Totes

COVERAGE

Unless otherwise directed by applicable specifications, the rate of coverage can be up to 6.1 m²/L (250 ft.²/gal.). Coverage rate will vary due to the porosity of the substrate. Always apply to a test area first to determine actual coverage rate before full-scale application.

SHELF LIFE

When stored indoors in original, unopened containers at temperatures between 4° - 32° C, optimum performance and best use is obtained within two years of date of manufacture.

SPECIFICATIONS/STANDARDS

- Alberta Transportation B388 Type 1C
- Federal Specification SS-W-110C
- NCHRP 244 Series II
- NCHRP 244 Series IV
- AASHTO T259/T260
- ASTM E514
- ASTM C642
- ASTM C672
- OHD L-40
- Ministry of Transportation, Quebec
- Canada VOC Concentration Limits for Architectural Coatings

TECHNICAL DATA

Minimum Application Temperature	-7° C and rising
Maximum Application Temperature	35° C

*See PRECAUTIONS section for more information.

APPLICATION

Surface Preparation ... Surfaces must be structurally sound, clean, and free from dirt, efflorescence, and stains. For optimum results, wait 14 - 28 days before applying PENTREAT 244-100 to new concrete. Concrete surface must be clean and dry with all stains, oil, grease, dust, dirt, and curing compounds removed prior to application.

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Application Method ... Apply with a low-pressure airless sprayer, such as a Chapin 19069 with a 0.1 GPM (0.379 LPM) spray rate, allowing PENTREAT 244-100 to flood the surface. A small test area is always recommended.

Horizontal Surfaces ... Apply in a single pass. Completely saturate the surface and leave wet for 3 - 5 minutes. Then brush out or broom all pools and puddles of material from surface.

Vertical and Overhead Surfaces ... Apply two coats wet on wet. Do not allow the first coat to fully dry before applying the second.

Drying Time ... Product dries quickly; usually in one hour at 21.1° C. Drying times will vary depending on application rate, temperature, humidity, and project conditions.

PRECAUTIONS

FOR OUTSIDE/EXTERIOR APPLICATION ONLY. PENTREAT 244-100 IS COMBUSTIBLE. KEEP AWAY FROM ALL OPEN FLAMES, SPARKS, IGNITION SOURCES, etc. Use with adequate ventilation and block all HVAC ventilation ducts which may spread product vapours - vapours are flammable and heavier than air. DO NOT USE BELOW-GRADE.

Treated surface must be protected from rain for six hours minimum, but 12 hours is preferable. Do not over-apply. For optimum performance, the residual moisture must not exceed 4%. The air, substrate, and material temperatures should be -7° C and rising at the time of application. Substrate must be frost-free. Do not apply sealer when temperatures are expected to fall below -7° C) within 12 hours. Maximum application temperature is 35 °C.

Should it suddenly start to rain, stop treatment and cover impregnated areas. Do not over apply. Do not allow puddling or running to occur. On vertical applications, protect window panes and frames that will be painted from contact with PENTREAT 244-100.

Always perform a small test area to ensure compatibility and performance prior to full application.

MASTERFORMAT NUMBER AND TITLE

07 19 16 - Silane Water Repellents

For most current data sheet, sustainability information, and SDS, visit www.wrmeadows.com.

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