

X-DENS HS

HIGH-SOLIDS CONCRETE DENSIFIER

X-DENS HS is a water-based, high-solids blended silicate densifier designed for polished concrete, steel-troweled floors, and polishable overlays. Its fast-reacting formula penetrates deeply, hardening the concrete surface, increasing abrasion resistance, and improving final gloss. Proper application creates an extremely dense yet breathable surface that will not film, discolor, or skin.

APPLICATIONS

Ideal for:

- Polished and burnished concrete floors
- Commercial and industrial flooring
- Automotive dealerships and warehouses
- Schools, laboratories, and food-processing areas
- Parking garages and shipping terminals
- Public buildings, stadiums, and manufacturing facilities.

KEY ADVANTAGES

- Deep-penetrating hardening and superior abrasion resistance
- Preserves the natural appearance of concrete
- Reduces efflorescence and surface dusting
- Improves long-term durability and maintenance efficiency
- Compatible with water-based stains and dyes
- VOC-compliant and safe for indoor environments.



DONNÉES TECHNIQUES

Property	Value
Form	Liquid
Color	Opaque – dries clear
Odor	Slight to none
Total Solids	12 – 14 %
Specific Gravity	1,04
pH	11 – 12
VOC Content	< 50 g/L
Coverage	400 – 600 sq ft/gal (9.8 – 14.7 m²/L)
Dry Time	Approx. 30 min (depending on porosity)
Appearance	Clear finish, no film

X-DENS HS

CHEMICAL SOLUTIONS

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Material Coverage per Gallon

Coverage varies according to porosity and site conditions.

- New steel-troweled concrete: up to 600 sq ft/gal
- Polished surface: 400 – 600 sq ft/gal

A uniform, saturated application ensures optimal densification and improved polishing performance.

Application Guidelines

Before applying, test a small inconspicuous area to confirm substrate compatibility.

Apply only when surface and ambient temperatures remain above 4 °C (40 °F) for at least 2 hours after application.

1. Surface Preparation

- Clean the surface thoroughly; ensure it is clean, dry, and absorbent.
- Remove dirt, laitance, and any curing agents that could inhibit penetration.
- Avoid acidic or citrus cleaners. If used previously, neutralize with an alkaline cleaner.

2. Application

- Do not dilute or modify the product.
- Stir well before use.
- Apply X-DENS HS with a low-pressure sprayer in a uniform, saturating coat.
- Use a microfiber pad or soft-bristle broom to spread and even out puddles.
- Keep the surface wet with product for at least 20 minutes, adding more as needed.

3. Drying & Polishing

- Allow the surface to dry completely before opening to traffic or continuing the polishing process.
- For best results, burnish with a high-speed machine (≈ 800 grit or higher) to refine gloss and uniformity.

Storage & Safety

- Store tightly sealed between 4 °C (40 °F) and 38 °C (100 °F).
- Do not allow to freeze.
- Keep out of reach of children.
- Wear gloves, long sleeves, and eye protection.
- Wet surfaces may be slippery – use caution.
- Clean tools and spills with soap and water.
- Dispose of residues according to local environmental regulations.

First Aid:

- Eyes: Rinse thoroughly with water for 15 minutes; seek medical attention if irritation persists.
- Skin: Wash with soap and water; remove contaminated clothing.
- Ingestion: Do not induce vomiting; drink two glasses of water and consult a physician.
- Inhalation: Move to fresh air; seek medical attention if symptoms persist.

Limitations

- Will not conceal existing stains or cracks.
- Not designed for asphalt, painted, or non-cementitious surfaces.
- Does not repair structural defects in concrete.
- Strong acids or solvents may damage the surface.

Packaging

1 Gallon (3.78 L) | 5 Gallon (18.9 L) | 55 Gallon (208 L)

Environmental Compliance

Complies with USGBC LEED® IEQ Credit 4.1 requirements.

Eco-friendly formulation – low odor – VOC compliant (< 50 g/L).

Safety Data Sheet (SDS)

Available upon request.

To obtain the latest version of the SDS for this product, please contact:

info@phxindustries.ca

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