

Harden XP™

Lithium Hardener/Sealer/Densifier



LEED® EQ Credit 4.1: Low Emitting Materials: Adhesives & Sealants

PRODUCT DESCRIPTION

SealSource® International, LLC manufactures this premiere hardener/sealer/densifier with the most cutting edge technology in the industry, the lithium formulation of **Harden XP™** was designed to give you a harder surface therefore leading to a superior polished floor. **Harden XP™** provides superior concrete strength and performance. **Harden XP™** is not a coating, it completely penetrates the surface to become part of the structure in just one application- with no cracking, peeling, or flaking for the life of the surface. This unique design will give you greater hardening properties allowing you to perform a better and tighter polish without all the steps.

Harden XP™ is sprayed evenly over the area to be treated-there is no need to flush the surface or remove and dispose of any excess material after installation. **Harden XP™** gives long-term protection in a single application, dramatically reducing maintenance costs and facility downtime.

USES

Harden XP™ is designed for interior or exterior use on new or existing concrete (as noted in ACI Standard 302.1R-89), including tilt-up construction slabs. Its many industrial and commercial applications include roadways, loading docks, sidewalks, driveways, parking facilities, vehicle show rooms, transportation terminals, manufacturing facilities, distribution centers, sports & entertainment venues, and convention centers. **Harden XP™** is USDA approved for use in food and drug processing facilities and is safe for incidental contact with food.

ADVANTAGES

- Lithium Technology - allows deeper penetration and a more complete chemical reaction for maximum sealing/hardening/densification
- Maximum Resistance to dusting and abrasion
- No Flushing - material is simply sprayed evenly over the surface with no flushing or removal of excess material
- Durable - one-time installation provides long-lasting protection
- Fast-Drying - dries in 10 minutes, open to traffic in 30 minutes
- Light-Reflective - provides immediate sheen that improves over time with normal wear and maintenance
- Lower Potential for Efflorescence than sodium-based treatments
- Stable in All Environmental Conditions - eliminates expansion/contraction caused by ASR in sodium silicates
- Low-Maintenance Surface - minimal downtime and maintenance costs
- USDA Approved - for incidental food contact
- Environmentally Safe - low VOCs (<50 g/L), odorless
- ASR- our unique lithium silicate formulation will help in mitigating the effects of ASR, as well as not causing ASR

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PHYSICAL PROPERTIES

Form:	Clear, water-based solution
Total Solids:	17.1%
Active Ingredients:	100% of total solids
Specific Gravity:	1.11
pH Level:	11.0
Flash Point:	N/A
VOC Content:	< 50 grams/L, 0 lb/gal, or 0 g/L per gallon
Freeze Point:	32° F (0° C)
Abrasion Resistance:	Does not change floor friction coefficient
Depth of surface penetration:	2-8 mm

PACKAGING

- 55 Gallon Drums (drum containers filled by weight, volume is closely approximate)
- 5 Gallon Pails

MIXING

Harden XP™ is a single component product. Shake or stir for 1-2 minutes prior to use.

APPLICATION METHOD/COVERAGE RATE

The use of a Certified Applicator is required for all national accounts. Please see separate application instruction document for complete application information. **Harden XP™** may be applied by HPLV, pump-up, airless, backpack, or mechanical sprayer; roller or brush at approximately 400 sq/ft per gallon (10-12 m²/liter). Rate will vary depending on surface porosity.

DRYING TIME

Dries in 1-2 hours and is ready for traffic as soon as the surface is dry.

SHELF LIFE

Harden XP™ may be stored for up to one year in unopened, factory-sealed containers under normal storage conditions of 55°F-90°F.

COMPLIANCES

Recommended for use on concrete classes both new and existing surfaces as noted in ACI Standard 302.1R-89.

FRICTION TEST DATA

These series of tests were conducted according to ASTM C-1028-96 guidelines. All samples had a machine trowel finish.

RESULTS	
Dry untreated specimen	0.720
Wet untreated specimen	0.490
Harden XP™ treated specimen (wet)	0.480
Harden XP™ treated specimen (dry)	0.720

INTERPRETATION

Harden XP™ products do not significantly alter the friction qualities of the surface they are applied to. All standard methods for accident prevention must be used in situations where traction is of concern.

ABRASION TEST DATA

Test Method: Mohs Hardness testing was conducted in conjunction with ASTM C1353 on 3000 psi steel-troweled concrete that had been in place for 10 years. The absolute scale of hardness equivalent is given in parentheses following the Mohs number.

Untreated Concrete	3.5 (9)
Concrete Treated with Harden XP™	7.0 (100)

The Mohs hardness scale simply consists of 10 minerals arranged in order from 1 to 10. Diamond is rated as the hardest and is indexed as 10; talc as the softest with index number 1.

FLEXURAL STRENGTH TEST

Test Method: Per ASTM C-78-94 the standard method for flexural strength of concrete (using simple beam with third-point loading).

Untreated	430
Treated with Harden XP™	635

SAFETY

- Read Material Safety Data Sheet before using
- Keep out of reach of children
- Protect from freezing
- Wear safety glasses and rubber gloves
- Do not apply to soft metals
- Do not apply to glass

WARRANTY

SealSource® International LLC, will refund the price of or replace, at its election, product it finds to be defective provided the product has been used properly. Except as expressly stated above, the Company makes no warranty of merchantability and no warranty of fitness for any particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.