

PURPOSE

BUFF HARD is a colorless and odorless solution of specialized reactive chemicals that harden and seal concrete surfaces for long-term protection and performance. This water-based product is easy-to-use, VOC compliant and environmentally safe.

BUFF HARD penetrates and bonds within the concrete into a densified mass to provide long service life. The concrete surface is not only more abrasion resistant, but more resistant to chemicals and water infiltration than untreated concrete.

BUFF HARD allows finished concrete surfaces to be buffed to lustrous finish, an attractive alternative to conventional sealers and coatings. All typical cleaning and buffing can be done with standard floor maintenance equipment.

DESCRIPTION

BUFF HARD is a water-based solution of silicates and buffing compounds for interior or exterior concrete surfaces. This material is inorganic and will not yellow with age. Long-term warranties are available.

BUFF HARD penetrates the concrete surface and becomes an integral part of the substrate to provide long-term protection. It is excellent for concrete surfaces where long term resistance to dusting, black tire marks and water is important.

PACKAGING

BUFF HARD is packaged in 275 gallon (1040.9 L) totes, 55 gallon (208.2 L) drums and 5 gallon (18.9 L) pails.

STANDARDS

BUFF HARD meets V.O.C. emission requirements for compliance for sealers (EPA limit 400 g/L).

BUFF HARD meets V.O.C. compliance for the State of California, Regulation 8, Organic Compounds, Rule 3, Architectural Coatings (CA limit 350 g/L).

BUFF HARD performance characteristics include:

Active ingredients: 100% of total solids

Specific gravity: 1.2

Skid resistance: Good

Depth of penetration: 4mm into concrete

Water absorption (ASTM-C-642): 3.1% in 24 hours

Compressive strength (ASTM-C-140):

Treated concrete - 3890 psi (27 MPa) average

Untreated concrete - 3461 psi (23.9 MPa) average

APPLICATION

Storage: To prevent contamination, containers should be tightly closed and stored. Prevent accumulation of water, dirt or other residue on covers.

Preparation: New concrete surfaces must be properly finished and cured. CURE & HARD is recommended for curing the surfaces scheduled for treatment. If curing with water or sheet materials, then curing should continue for a minimum of three days. Do not use a liquid membrane-forming curing compound on the surfaces scheduled for treatment. Apply BUFF HARD after a minimum of 7 days.

Existing concrete surfaces must be structurally sound and all residual curing compounds, sealers, waxes, mastics, paints or other coatings must be removed. Repair all cracks and damaged areas before application.

Coverage: Typical spray application at 200 square feet per gallon (4.9 m²/L) is recommended. Allow the BUFF HARD to penetrate the concrete surface by keeping the area saturated. BUFF HARD may be applied by low pressure spray, broom or roller. Apply uniformly to all concrete surfaces.

Work BUFF HARD into the surface with a stiff brush or scrubber until material begins to gel (15-30 minutes, depending on the temperature). Lightly wet the surface with water and continue to brush (5-10 minutes). Thoroughly rinse the remaining excess material from the concrete and allow the surface to dry.

Extremely porous concrete may require a second application. Apply BUFF HARD at a coverage rate of 400 square feet per gallon (9.8 m²/L) and repeat the application steps. Do not allow surfaces treated with BUFF HARD to dry between applications.

The use of a mechanical scrubber will increase the effectiveness of the application. The treated surface will develop a polished appearance over time.

Unusual applications or conditions may require the technical assistance of a Symons representative.

DRY TIME

BUFF HARD dries in approximately 2 hours at 70°F (21°C) with good air circulation.

CLEAN-UP

Immediate and complete flushing with clean water.

LIMITATIONS

BUFF HARD is not a membrane forming curing compound. For best results, properly cure the concrete for 7 days. Only apply to colored concrete after 60 days.

Ponded or puddled material must be squeegeed or brushed, otherwise white residue will appear on the surface. If white residue starts to appear on the surface dur-

ing drying, then immediately remove with hot water and scrubbing. Floors are slippery during application.

Porous or low quality concrete substrates may not develop a "polished" appearance over time.

Protect aluminum and glass from overspray and exposure. Product will permanently discolor aluminum and etch glass.

BUFF HARD should not be applied to concrete below 40° F (4°C). Product is water-based and will freeze.

SHELF LIFE

Shelf life of properly stored BUFF HARD is approximately one year.

PRECAUTIONS

It is mandatory to take the following precautions to protect workers and the public:

1. KEEP OUT OF THE REACH OF CHILDREN.
2. The product is water-based. Protect from freezing.
3. Avoid inhalation of vapors. Ensure adequate ventilation.
4. Avoid contact with skin. Protective clothing is recommended. Contact areas should be thoroughly washed with soap and water.
5. Avoid contact with eyes. Protective goggles are recommended in case of splashing. Flush eyes with water if contact occurs.
6. Avoid ingestion of material. If ingestion occurs, contact a poison center or physician.

Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet.

WARRANTY

Symons warrants, for 12 months from the date of manufacture, or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Symons, the product is free of manufacturing defects and conforms to Symons' published specifications in force on the date of acceptance by Symons of the order. Symons shall only be liable under this warranty if the material has been applied, used, and stored in accordance with Symons instructions in this technical data sheet.

The purchaser must examine the product when received and promptly notify Symons in writing of any nonconformity before the product is used, or no later than 30 days after such nonconformity is first discovered. If Symons, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the nonconforming product, refund the purchase price or issue a credit. This is the sole and exclusive remedy for breach of this warranty.

Only a Symons officer is authorized to modify this warranty. The sales information on the Symons website and received by the customer during the sales process does not supersede this warranty and the specifications of the product in force on the date of sale. **THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.**

LIMITATION OF LIABILITY

Symons shall not be liable, in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injuries), or economic losses of any kind; or for any special, incidental, indirect, consequential, special, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, this Agreement, even if Symons could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this agreement, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.

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