



SB 2720 ASRestore Treatment

SB 2720 ASRT is a treatment for concrete affected by Alkali Silica Reaction (ASR). ASR gel is formed when alkalis from the concrete raw materials or environmental contaminant such as marine or deicing salts react with silica minerals in the aggregate. These gels swell when in contact with water and generate destructive expansion. This expansion causes cracks in the concrete allowing more water to penetrate thus accelerating the damage and bringing a premature end to the life of your concrete slabs. Formulated with lithium nitrate and a proprietary surfactant package to allow deep penetration into the concrete, SB 2720 ASRT can reduce swelling and prevent further expansion of the ASR gel. If diagnosed early, the ASRestore System properly applied can arrest the problem before the damage becomes too extensive.

Preparation

Remove all sealers or coatings that may prohibit the absorption of the SB 2720 into the concrete. Clean the concrete with the proper ASRestore cleaning product to ensure it's free of oils, dirt, and organic debris [contact your ShoreBest Representative for details].

Provide protection for surfaces not receiving treatment and pedestrian traffic. Barriers should be placed on non-level concrete to prevent runoff of SB 2720 ASRT, thus allowing maximum absorption of the product.

All projects should start with a test application to determine the suitability of the product, acceptable application methods and absorption rates. Test areas of at least 10 square feet are recommended and should involve the worst area to receive treatment. If the final finish of a slab rejuvenation is to be a cementitious or thick film overlay, then consideration should be given to an abrasive method to open up the pores.

Dilution and Coverage

Dilution: Product used undiluted -- test application recommended

Coverage rates generally need to be at least 6 gallons per 1000 square feet with higher rates required for more highly affected concrete.

Application

In most applications, the objective is to impregnate as much SB 2720 as possible. Substrates displaying the characteristic map cracking damage require and should absorb more material than visually sound concrete. Flood surface of dry concrete by spray application to the point of ponding, and allow absorption into the concrete. Repeat this process to a point of saturation where the concrete refuses additional absorption. In hot, dry, or windy conditions, it will be advantageous to mist the surface with potable water to counteract the effects of water evaporation. If white salts appear on the surface, more water should be used to scrub the product into the surface.

SB 2720 ASRT may also be applied by vacuum impregnation, pressure injection, or electrochemical means. Coverage rates will vary with application type and absorption rate of concrete. The minimum therapeutic amount of lithium needed to suppress the ASR activity is dependent on the alkali content of the concrete and whether there is continuing challenge by applied alkalis such as deicing salts. Petrographic and/or chemical analysis of a core sample may be necessary to determine optimum treatment protocol. Once the optimum amount of lithium ion is impregnated into the concrete, consideration should be given to using the appropriate ASRestore™ product to seal it in.

Technical Data

Appearance: Pale Yellow pH: 7 to 9.5
Odor: Mild Alkali Stability: Good

Safety

No GHS ratings apply to this product at this time.

Refer to product SDS or product label for hazard statements, precautionary statements and safety information

Warranty

Shore Corporation warrants that this product conforms to the chemical composition described in the Product Label. SHORE CORPORATION EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Shore Corporation shall not be responsible for any direct or consequential damages sustained as a result of the use of this product. Further, Shore Corporation shall not be liable for personal injuries, property damage or any other damages as a result of the use of this product, the sole responsibility of Shore Corporation under the within WARRANTY being the replacement of any nonconforming product. Acceptance and use of this product absolves Shore Corporation from any other such liability whatsoever and from whatever source. The within WARRANTY may not be modified or extended by Shore Corporation representatives or distributors, neither of which are empowered to make any product representation inconsistent with the terms hereof.

Contact

Trained representatives are available to assist with project assistance and product recommendations. Call **412/471-3330**.