

ZNR™ ARMORCRETE
Lithium Silicate Based Concrete Surface Hardener

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| Product Description | Lithium silicate based liquid concrete surface hardener product, which improves surface strength by hardening fresh and existing concrete surfaces and creating a capillary effect, prevents dust emission and is used to obtain a surface with high abrasion resistance. It creates an insoluble calcium silicate structure by reacting with calcium hydroxide and calcium carbonate existing in the active lithium concrete structure. Therefore, hardness of the concrete improves and dust-free surface is obtained. | | | | | | | | | | | | | | | | |
| Product Number | 604 | | | | | | | | | | | | | | | | |
| Areas of Application | <ul style="list-style-type: none"> • All factory floors; especially ideal for all food (meat, milk, drinks, etc.) factory floors because it does not contain any material harmful to health. • Warehouse floors • Parking lots and parking garages • Museums, hospitals, sports fields • Airports • Treatment facilities • All buildings with exposed concrete surfaces. | | | | | | | | | | | | | | | | |
| Characteristics /Advantages | <ul style="list-style-type: none"> • The material is water-based, colorless and odorless, and inflammable. • Easy to apply. The surface can be opened for pedestrian and vehicle traffic in a few hours after application. • ZNR Armorcrete, which penetrates deep into the concrete, creates micro crystals by immediate chemical reaction. As a result of this reaction, a layer similar to paint film does not occur on the concrete surface. • Natural appearance of the concrete does not get spoiled. The surface does not turn yellow or the color does not change. • It is resistant against ultraviolet lights. • Economic. | | | | | | | | | | | | | | | | |
| Technical Data | <table border="1"> <tr> <td>Appearance</td><td>Colorless and odor-free.</td></tr> <tr> <td>Package</td><td>30 kg</td></tr> <tr> <td>pH</td><td>12</td></tr> <tr> <td>Density</td><td>~1.15 gr/cm³</td></tr> <tr> <td>Viscosity</td><td>30 - 40 KU (~70 mPa.s)</td></tr> <tr> <td>Danger class</td><td>No</td></tr> <tr> <td>Consumption</td><td>Approximately 0,100 kg/m² (variable, depending on surface conditions)</td></tr> <tr> <td>Storage</td><td>The product can be stored for approximately 1 year in a cool and dry environment in the original close package.</td></tr> </table> | Appearance | Colorless and odor-free. | Package | 30 kg | pH | 12 | Density | ~1.15 gr/cm ³ | Viscosity | 30 - 40 KU (~70 mPa.s) | Danger class | No | Consumption | Approximately 0,100 kg/m ² (variable, depending on surface conditions) | Storage | The product can be stored for approximately 1 year in a cool and dry environment in the original close package. |
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| Storage | The product can be stored for approximately 1 year in a cool and dry environment in the original close package. | | | | | | | | | | | | | | | | |
| Surface Preparation | No surface treatment is needed for new concrete. If the concrete is an already existing one, any material such as paint, coating, grease, dirt, etc. must be removed from the surface. | | | | | | | | | | | | | | | | |
| Preparation Instructions | The product is ready for use. | | | | | | | | | | | | | | | | |
| Application | <p>New Concrete: Directly apply the product on new poured concretes. After identifying the joint gaps, clean any dirt, remnants and residues in the gaps and apply the material on the surface of the concrete.</p> <p>Existing (Aged) Concrete: Make the concrete surface ready for application. The surface preparation should be made using cleaning and polishing machines, diamond disks and diamond cleaning and maintenance pads.</p> <p>Apply the material on the application surface using a spray pump applicator. Spread the product in a thin layer using a micro-fiber pad. Pay attention to avoid ponding. Re-application is required for the areas that dry before 10 minutes. The surface can be opened for pedestrian traffic after the entire surface dries in 1-2 hours approximately.</p> <p>The surface becomes ready for application after drying, however completion of the reaction may take up to two weeks depending on temperature and environment conditions.</p> | | | | | | | | | | | | | | | | |
| Considerations | <ul style="list-style-type: none"> • Do not thin the material with water or solvent by any means because the material is offered as off-the-shelf product. | | | | | | | | | | | | | | | | |

- If spray application is considered, apply with low pressure. Do not use wire brush. Pay attention to avoid contact of the material with metal, glass, aluminum and other enamel surfaces.
- Pay attention to avoid frost of the material at cold temperatures. If frozen, the material must be re-expanded in a warm ambient.
- Do not apply on highly porous concretes.

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| General Matters | Abovementioned product data and descriptions are prepared for guiding purposes as a result of our experiences and diligent studies. We, individually, can not control or affect the variety of the related materials and various construction and working conditions. Warranty is limited to only quality of the purchased material for the applications that are not under our control. No warranty is committed for application, but only for product manufacturing. This technical flyer overrides former flyers. Quality of the work may vary depending on how professionally the product is used. In case of hesitation, please perform a small test or ask for technical help. |
| Disposal | Empty packings can be disposed to collection bins according to regional/local regulations or recycling rules. Dispose used waste materials as construction waste materials after drying and hardening. It is dangerous to dispose by burning the product remnants. |
| Safety Information | Keep the products out of reach of children. Keep the lids of the products closed. It is recommended to use gloves and goggles during application. In case of contact with skin, wash immediately with soap. In case of contact with eyes, immediately consult a doctor. For more information, please refer to the material safety data sheet. |