

Strongbond Moisture Solution Product Information

PREPARATION & INSTALLATION

PROCEDURE:

Moisture Solution is a moisture proofer, densifier, hardener and curing agent for concrete. It penetrates through the concrete slab up to 100mm. Moisture Solution is used to treat moisture problems and restricts moisture vapour emissions. Moisture Solution does not prevent adhesion of floor coverings to substrate. Moisture Solution can reduce hydrostatic pressure and can be effectively applied to positive or negative side of concrete structures.

Moisture Solution has been specially formulated to provide the building, owner and operator with the most cost-effective method to eliminate the risks and problems associated with subfloor moisture problems. Moisture Solution is a single pack, ready-to-use (no mixing), deeply penetrating, safe (not for human consumption as high in PH) and odourless, easy-to-apply (simply pour and spread) liquid that allows early site access (foot traffic in two hours.) In most cases, is ready to accept floor prep and coverings after 24 hours from applying Moisture Solution.

NEW CONCRETE:

Moisture Solution is a superior curing method that doesn't have to be removed. We recommend only using on concrete that is at least 28 days old for newer concrete use **Desi-Solutions**. At the same time, it provides a harder, dust-free surface and permanent moisture proofing that will allow floor coverings installation after 28 days from pouring of the concrete.

OLD EXISTING CONCRETE:

If there is old, existing concrete and the moisture content is higher than 75% RH as per NZS /AS 1884:2013, please follow the coverage & application procedures. However, there is normally a problem somewhere (broken pipes, cladding clearances, a breakdown in the original membrane causing hydrostatic pressure, etc) for old concrete to remain this wet. If a warranty is required a written specification should be acquired. For this contact Look Floors.

MOISTURE CONTENT:

Moisture Solution works best on slabs that are 75% RH or below, however there are huge benefits in using Moisture Solution on concrete of higher readings. When it comes to old concrete reading above 85% RH and a full warranty is required on floor coverings, further options should be considered, please contact Look Floors for additional technical advice.

UNDERFLOOR HEATING AND DIRECT SUNLIGHT:

If using Moisture Solution to subfloor that has underfloor heating or large floor to ceiling windows or is in contact with direct sunlight and the reading is over 85% RH, please contact Look Floors for additional technical advice.

CURING MEMBRANES:

Check concrete for any evidence of curing compounds and surface porosity. This can be easily done by pouring a little water on the concrete and watching for penetrations.

If there is no sign of penetration or surface wetting at all within 1-2 minutes, then the concrete should be mechanically prepared by sanding, grinding etc. Follow with thorough vacuuming to remove the curing membrane and dust and to create surface porosity to allow Moisture Solution to penetrate. If unsure, please contact Look Floors for further technical advice. (The removal of any curing membrane is required for any other product or preparation as described in the NZ Standards). If there is no evidence of the presence of a curing membrane and there is no surface porosity, then it is equally important to mechanically prepare the surface by sanding or grinding etc. Follow with thorough vacuuming to expose a clean and sound open surface, ensuring that all laitance, plaster, paint and dust etc. is removed to allow for full, efficient penetration of Moisture Solution.

CRACKS:

Moisture Solution should be applied first before applying your normal crack repair system. If full warranties are requested, an engineer should be consulted to determine the type of cracking and cracks should be indicated on a floor plan.

Please contact Look Floors for advice and specification.

COVERAGE & APPLICATION:

1 litre of Moisture Solution will treat approx. 4m². Moisture Solution has been specifically formulated as a one-coat pour and spread product keeping cost convenience and ease of application in mind for the installer for those small to medium areas. In most cases, depending on the concrete porosity, it is important to ensure you achieve the correct coverage rate and

we suggest that measurements are taken. With larger areas, grids should be made so that even distribution occurs. Application can be by pour or low-pressure spray (pump-up knapsack type). Whatever method you choose, make sure that the correct amount of product is applied to achieve surface saturation.

It is important that the product is distributed evenly through continuous working by soft broom in all directions to ensure the product is presented to all surface profiles. There is no need to apply added pressure to the broom as it is only used to distribute the product evenly. If pressure is applied, it tends to have the opposite effect in not leaving enough material on the surface. Allow the material to penetrate the surface. If you find that after 1 hour some areas have completely absorbed and some have not, then distribute the excess product over the dry areas. **Please note, on occasion the concrete may be of poor quality and be very porous, which may cause it to require additional product to ensure that there is enough product to complete the capillary chemical gel forming reaction. Ensure that you apply the extra Moisture Solution “wet on wet”.**

HOT & COLD TEMPERATURES:

In hot or windy conditions, the concrete surface temperature or wind may dry out the product prematurely before it has a chance to absorb thoroughly. In this case it is advisable to mist-spray the surface with water and apply Moisture Solution whilst the surface is damp. This also helps with relations of surface tension, allowing more efficient and faster penetration as well as premature evaporation or drying out. Moisture Solution should not be applied if the ambient temperature is below 5°C.

Moisture Solution is not affected at all by temperature change after 24 hours, not even in freeze-thaw conditions.

SAFETY PRECAUTIONS:

You must read the Safety Data sheet before using this product to ensure the applicator's safety.

CLEAN UP:

Moisture Solution is water-based, odourless and safe to use. Contains no VOC. Clean up with water, however Moisture Solution is alkaline and should not be allowed to dry on glass or polished aluminium as an etching effect may occur. It is important to cover first and use water to remove it before drying occurs.

SHELF LIFE:

Moisture Solution has a 12month shelf life unopened.

PREPARATION FOR FUTURE COATINGS - FLOOR PREP & FLOOR COVERINGS:

Prior to floor preparation or the installation of floor coverings, the concrete surface shall be mechanically prepared via sanding, or if necessary, grinding. We still advise that the concrete should be 28 days old even if Moisture Solution is used as a curing agent. Moisture Solution locks up moisture and purges any excess moisture or contaminants to the surface. In most cases it is only a matter of sanding and vacuuming the surface after 24 hours to remove any of these contaminants or excess material which may have dried to leave a clean, sound concrete surface. This is also vitally important as it removes any trace of high alkalinity that may

affect priming or adhesive materials. On some occasions where there has been excessive water used in the concrete or you are trying to lay coverings in 7 days or less after concrete installation, you may notice a fair amount of moisture on the surface. This just shows that Moisture Solution is doing as intended and purging excess water that could have otherwise taken months to evaporate under normal drying conditions. If there is evidence of excess water on the surface, then it may take extra time for the process to complete and dry out. The unique formulation of Moisture Solution has been specifically designed to moisture-proof concrete while creating a 2mm surface porosity that accepts acrylic primers etc. that are commonly used in the flooring industry. After the final sanding and vacuuming of the Moisture Solution treated concrete has taken place, the floor is ready to proceed with floor prep.

CAUTION:

KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH EYES / SKIN / BREATHING DUST/ FUMES / GAS / SPRAY.

FIRST AID:

If in eyes, wash out immediately with water. If skin contact occurs wash off immediately with water and soap. Contact a doctor if irritation persists. For advice, contact the **POISON CENTRE (0800 764 766)**. Collect the spillage and dispose of the containers in **accordance with the local regulation.**

MUST READ THE SAFETY DATA SHEET BEFORE USING THIS PRODUCT.

www.lookfloors.co.nz 0800 10 26 26