



SILIN

“A & A” Reinforcing and Leveling Mortar

SILIN® “A & A” Reinforcing And Leveling Mortar is a lime-cement mortar of dry mortar group P II b according to DIN 18550 (German Specifications) which is based on fat lime, Portland cement, adhesion-promoting aggregates and reinforcing fibers. SILIN® “A & A” Reinforcing and Leveling Mortar is a factory-made dry-mix mortar of mineral nature specially designed for bridging cracked façade coatings and plaster. Moreover, it is ideal for embedding SILIN® “A & A” Reinforcing Fabric for bridging cracks. The SILIN® “A & A” Reinforcing and Leveling Mortar is also suitable on polystyrene boards, rigid insulation, cement board, plywood with wire lathe, leveling concrete surfaces and other masonry surfaces. The coated surfaces can be easily recoated with SILIN® Silith Mineral Paint or SILIN® Pure Silicate Plaster (see instructions for use).

Surface Preparation

Surfaces to receive Silin stucco must be sound and free of all dust, dirt, grease, laitance and/or any other coating or foreign substance which may prevent proper adhesion. Remove all loose and deteriorated masonry from the repair area using manual or pneumatic cutting tools. Dampen all masonry surfaces with water. For non-absorptive surfaces dampening is not required (i.e. rigid insulation). For applications on non-masonry surfaces, plastic trim (corner bead, j-channel, etc.) needs to be installed.

Mixing

It is recommended that a dust mask be worn during mixing. The mixing ratio is approximately 2 - 2¼ gallons of water per bag (30kg), depending on temperature and humidity. More water may be required as ambient temperature rises. Mix thoroughly by means of mechanical mixer, let stand for approximately 10 minutes, and then remix to the desired consistency. The mortar is workable for approximately 1-2 hours, depending on wind, temperature and humidity. Although not recommended, the mortar can be re-tempered (water added and remixed). Do not mix any cured material with water for reuse.

Application

When applying the SILIN® “A & A” Reinforcing and Leveling Mortar over porous masonry dampen the surface prior to application using clean potable water. Protect other coatings, glass and metal parts, etc. prior to application. Do **not apply below 40 F**. Apply the Silin mortar with a trowel or mechanical pump in 3/16” to 1/2” layers and trowel to a smooth finish. For uneven substrates, fill the deeper voids to even the substrate. Allow the mortar to dry and then apply a finish coat. If applying Silin stucco in lifts, additional surface preparation is required to maintain adhesion between layers. Scratch or brush and comb the surface of the initial coat to remove the cement skin formed during troweling. This will open the pores before an additional layer of material is applied. Then scratch again with a plasterer’s comb to create more surface area for mechanical bonding. The second coat can be applied after the initial coat has achieved thumbprint hardness (Follow initial dampening procedures if the first coat has dried). For substrates where the SILIN® “A & A” Reinforcing Fabric is required, apply a layer of SILIN® “A & A” Reinforcing and Leveling Mortar approximately 1/8” to 1/4” thick. Embed the fiber mesh into the mortar overlapping the mesh by 6 inches on each edge. Trowel fiber mesh into mortar. Apply another 1/8” to 1/4” of mortar to finish the application and trowel to a smooth finish. For substrates requiring the use of wire lathe (plywood), two applications are required. The first application should be troweled into the lathe. The finish application should be applied the following day.

Finishing

The waiting period before finishing will vary, depending on wind, temperature and humidity. After initial set, finish the surface with a wet sponge/float or wooden float. Final texture will vary depending on the float chosen for finishing. Install faux joints, block lines, or historic tooling immediately after finishing before the stucco hardens. Clean any residue from the surrounding area with a sponge and clean water. This should be done before the mortar sets. Lightly mist the

repair with water to wet the entire surface of the finished repair approximately 30 minutes to 1 hour after completion on hot sunny days, and approximately 2 hours or longer, on cool or cloudy days. Time will vary with temperature and humidity.

Curing

Lightly mist several times a day on the three days following the repair installation. Should access to the repairs be impossible for a period of time, plastic may be used to cover them temporarily. The application of plastic, however, does not remove the need for normal curing techniques.

Coverage rate

The SILIN® "A & A" Reinforcing and Leveling Mortar will cover approximately 108 sq. ft. at 1/16" thick, 54 sq. ft. at 1/8" to 3/16" thick, or 30 sq. ft. at 1/4" thick, per bag (30kg).

Container Size

The material is delivered in 30 kg (66 lb.) bags.

Tools

Place tools in clean water during breaks. Clean thoroughly with clean water after use. Cured SILIN® "A & A" Reinforcing and Leveling Mortar is insoluble in water.

Storage

Cool and dry. Close containers airtight after use. Do not place bags on concrete floors without pallets. Use up within 12 months.

All the information in this technical data sheet is based on extensive practical experience. We assume full warranty for the quality of the delivered material. The information above is of an advisory nature and in no way binding. The user is fully responsible for the observation of existing regulations and conditions when using the product. Consultation with our regional managers does not establish a consultancy relationship.

Notice: The information contained herein is based on our own research and the research of others, and it is provided solely as a service to help users. It is believed to be accurate to the best of our knowledge. However, no guarantee of its accuracy

can be made, and it is not intended to serve as the basis for determining this product's suitability in any particular situation. For this reason, purchasers are responsible to make their own tests and assume all risks associated with using this product.

Physical data:

S_d value: 0.14 m

Water absorption coefficient: 0.2 kg/m² x h^{0.5}

Compressive strength: 812 psi

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