



INSTRUCTIONS FOR
WORKING
PROCESS
LEVELING
OF SURFACES

CODE:
REVIEW: 2
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RHENATEC®

GUIDELINE FOR SURFACE PREPARATION, LEVELING AND COATING INSTALLATION

The following guideline applies to new, used or remodeled floors that require surface leveling prior to receiving the final coating.

- 1** Check and diagnose the condition of the floor.
- 2** In the case of new slabs, clean the surface eliminating residual dust, remains of curing elements and false adherences. Repair if necessary, fissures, cracks and hollows before proceeding to leveling. In old slabs proceed in the same way as above. Roughen the surface if necessary to eliminate protrusions, protruding joints that prevent an optimal performance of the subsequent leveling. In floors with tiles or ceramic tiles it is not necessary to remove them, the leveling is done directly on them creating points of adhesion by means of a mechanical adhesion bridge verifying that the tiles are firm and healthy.
- 3** **Water test:** For new and old slabs, first evaluate the absorption state of the surface. Pour water directly on the floor to observe the degree of absorption of the surface.
Depending on the rate of absorption, proceed to prime first with water to dislodge air occluded in the surface pores.
- 4** Apply **Rhenacret TOP RTU** directly without dilution on the dry surface with a squeegee roller, brush or spray system.
A) For highly porous surfaces (complete absorption) saturate the slab with water using 2 coats with a broom or roller, without leaving any standing water. Allow to dry to the touch for each coat applied and then prime the surface with **Rhenacret Top RTU** with a wool or chiporro roller, applying 2 coats crosswise.
B) For low porous surfaces, once the water test has been performed, saturate the slab with water using only one coat with a broom or roller, without leaving any embedded water. Allow to dry to the touch and then prime the surface with **Rhenacret Top RTU** with a wool or chiporro roller, applying one coat.
- 5** Drying times required will vary according to ambient conditions. Allow the following times for each coat of **Rhenacret Top RTU** applied according to substrate temperature:
+10 °C 4 - 6 hours
+20 °C 2 - 3 hours
+30 °C 1.5 - 2 hours

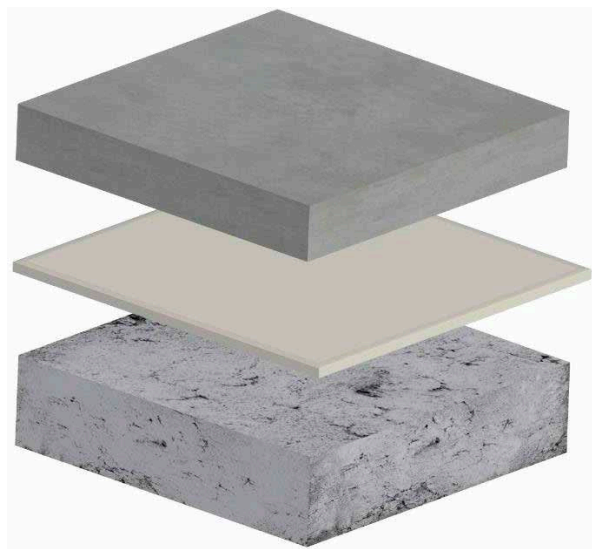
Times are approximate and may be affected depending on the degree of absorption of the slab and on-site conditions.
- 6** Define and mark the required leveling dimensions. Define perimeters for containment of the applied material if required.
- 7** The application of **Rhenacret Leveler 2000** is for the leveling of slabs, over slabs, foundations and concrete floors. **Rhenacret Leveler 2000** is designed for the reception of carpet coverings, vinyl floors, wood floors, floating floors, rubber floors, among others.

- 8** Pour 20 Kg. of **Rhenacret Leveller 2000** over 6 lt. of water. Mix with a helicoidal mechanical agitator at medium speed during 2 - 3 min. approx. until obtaining a homogeneous mixture free of lumps. Let the mixture stand for 1 minute, then stir for 1 additional minute at medium speed.
- 9** Apply and distribute **Rhenacret Leveller 2000** with a smoothing trowel, orienting the mixture on the surface until the required thickness is reached. Check the technical data sheet of the leveling mortar to define maximum thickness per coat.
- 10** Go over with a spiked roller to help de-aerate the levelling compound during its application and thus ensure a good extension, setting and finishing of the mortar.
- 11** For the leveling of surfaces at thicknesses greater than those indicated in the technical data sheet, apply in successive coats at thicknesses not greater than the maximum indicated. Pre-prime between successive coats directly with **Rhenacret Top RTU** as above.
- 12** Once **Rhenacret Leveller 2000** has been applied for ambient conditions at 20°C, allow to set for a minimum of 48 to 72 hrs. for a final thickness of 1 cm or more before walking on it. Control the residual humidity with a hygrometer during the setting process, checking the surface between 7 and 14 days after the surface is leveled, as long as the floor humidity is between 0-6%.



SURFACE PREPARATION, GENERAL SCHEME:

RHENACRET TOP RTU is a primer, duster and sealer for mineral surfaces that promotes adhesion of the self-leveling compound without emission of volatile organic compounds (VOC).



RHENACRET LEVELER 2000

PRIMER
RHENACRET TOP RTU

SUBSTRATE

SELF-LEVELING LEVELING MASS:

The use of **RHENACRET LEVELER 2000** mortar between 3 to 30 mm. thick in a single layer is contemplated.



INSTALLATION STEPS	MATERIAL/PRODUCT	APPLICATION
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Primer



RHENACRET TOP RTU
Primer, dust and dust killer and sealer

Apply Rhenacret Top RTU directly (undiluted) with a wool roller or a roller with a chiporro on the surface to be leveled, considering 1 to 2 coats in a crosswise manner, depending on the degree of absorption of the slab, as indicated in point N°4 of these instructions.

Leveling



Self-leveling mortar
RHENACRET LEVELER 2000
Resistance at 28 days:
Compression 319 Kgf/cm²
Flexion 86 Kgf/cm²

In a clean container, pour over 6 lt. of water 20 Kg. of **Rhenacret Leveler 2000**. Mix with a mechanical agitator helicoidal stirrer at velocity mediar for 2 - 3 min. approx. until obtaining a homogeneous homogeneous mixture, free of lumps. Let the mixture stand for 1 minute, stirring for an additional 1 minute at medium speed. Spread with a leveling trowel and evacuate bubbles with a spiked roller.

Accessories



SPATULA LEVELLER
500/60/05 mm

Stainless steel spatula with aluminum support and plastic handle with adapter for working rod. Use for improving the distribution of **Rhenacret Leveler 2000** for efficient surface coverage.



SPIKED ROLLER
460/85/20 mm

PVC roller, width 460mm, diameter 85mm and 20mm tines. Resistant structure and with adapter for working rod. Use for deaeration of Rhenacret cementitious cementitious Rhenacret Leveler 2000 applied on the substrate. substrate.

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NAILED SOLES
11 nails x 30mm

Reinforced plastic soles with 30mm long nails, 11 nails per sole and net weight 0.7 Kg per pair, with quick adjustment system for putting on and taking off. Use for deaeration in works on large surfaces where Rhenacret Leveling mixtures are being applied and it is required to walk on fresh application.



RHENACRET PORTAMIX

Balanced design: Ideal for mixing, transporting and pouring self-leveling mortars and other fluid compounds with ease and precision, reducing preparation and application times and material losses.

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