

Concrete Admixtures, Adhesives & Aids

EDECON LEVELTOP-181

DESCRIPTION

Edecon LevelTop-181 self-leveling underlayment is the state-of-the-art in Portland Cement technology. With the sole addition of water, it becomes a free flowing liquid mortar that seeks its own level and produces a smooth, flat surface. **Edecon LevelTop-181** has been designed as an underlayment for the fast leveling and smoothing of floor surfaces with a minimum of labor required. The resulting finish is a smooth and durable surface that is acceptable for the installation of floor coverings. **Edecon LevelTop-181** may be applied at thicknesses from 1/8 in. to 1 in. (3 to 24.5mm).

Specification: ASTM C-109

USES

Edecon LevelTop-181 is used anywhere an uneven, rough or unfinished concrete surface must be leveled or smoothed before the application of ceramic tile, marble, wood, resilient floor coverings or carpets. In addition to leveling concrete floors, **Edecon LevelTop-181** can be used in rehabilitation projects where old terrazzo, ceramic tile, wooden floors and steel decking must be made ready for new floor coverings.

ADVANTAGES

Edecon LevelTop-181 may be used in an interior application where a permanent water-resistant surface is required for receiving decorative floor coverings. **Edecon LevelTop-181** hardens quickly by hydration. Surfaces can be walked on in two (2) to four (4) hours and have floor covering installed within 12 to 24 hours. When cured, the finish underlayment will have similar properties to concrete. **Edecon LevelTop-181** may be applied as thick as 1/8 in. to 1 in. (3 to 24.5 mm) in single application without fear of shrinking, spalling, or fissures. Other advantages of **Edecon LevelTop-181** over traditional latex underlayment systems is that now troweling is required, it installs much faster.

TECHNICAL INFORMATION

PHYSICAL CHARACTERISTICS

| | | |
|--|-----------------------------|--|
| | pH | |
| | Specific Gravity | |
| | Weight per Gallon | |
| | Weight per Liter | |
| | Appearance | |
| | H ₂ O Solubility | |
| | Odor | |

APPLICATION

Surface Preparation: All surfaces to receive **Edecon LevelTop-181** must be structurally sound. Surfaces shall be free of dust, wax, sealers, old adhesive residue, curing compounds, oil, surface hardeners and other anti-adherents.

Limitations: **Edecon LevelTop-181** must not be used over gypsum based surfaces, old adhesive residue, paints, particle board, plastics, vinyl, epoxy or urethane floor coverings. Use in temperature range of 40°F to 100°F (4.5°C to 38°C). Do not allow mortar to freeze for the first 72 hours. **Edecon LevelTop-181** shall never be applied to any surface unless it has been previously primed with **Edecon Adicem-XL** to increase adhesion to the substrate and allow the underlayment to retain water for improved flow and higher strengths. **Edecon LevelTop-181** shall not be used as a wearing surface. **Edecon LevelTop-181** is used for interior use and do not use over substrates subject to hydrostatic pressure. **Edecon LevelTop-181** shall not be applied greater than 3/8 in. (9mm) in a single pour.

*See back for specific application instructions.

DOSAGE

Mix one 50 Lb (22.7 kg) bag of **Edecon LevelTop-181** with 4.5 quarts (4.3 l) of clean. Experience shows that is best to mix only two bags of **Edecon LevelTop-181** at a time, pour this on the floor, then mix as many additional 2 bag batches as necessary to complete the job.

PACKAGING

Edecon LevelTop-181 is packaged in 50 Lb. (22.7 kg) bags.

WARRANTY: The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental or consequential damages

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APPLICATION

For Masonry Surfaces: Dilute **Edecon Adicem-XL** at the ratio of 1:1 with water. Apply an even coat to a clean surface using a brush or broom. Do not allow to dry before apply **Edecon LevelTop-181**.

For Plywood Floors: Plywood surfaces shall be of exterior grade, and when placed over conventional floor joists, shall be a design of thickness to provide a secure, rigid substrate base. Allow a gap of 3/16 in. to 1/4 in. (4.7 to 6.3 mm) between sheets of plywood. Fill these gaps with dry **Edecon CCI-AC**. The plywood sub-floor is to be primed as follows:

1. Dilute **Edecon Adicem-XL** at the ratio of one (1) gallon (3.8 l) of water to one (1) gallon (3.8 l) of primer.
2. Mix two (2) gallons (7.5 l) of **Edecon LevelTop-181**.
3. Broom this primer slurry over the sub-floor and allow it to dry.
4. Nail or staple thin, galvanized metal lath to the floor.
5. Mix 1 quart (0.95 l) of **Edecon Adicem-XL** with 4 quarts (3.8 l) of water to one (1) bag of **Edecon LevelTop-181**.
6. Install no less than 1/4 in. (6.3 mm), and no more than 1 in. (24.5 mm) thickness of the above **Edecon LevelTop-181** mix over the surface following the standard procedure.

Special Surfaces: Marble, terrazzo and existing ceramic tile surfaces must be well bonded to the sub-floor, cleaned of any waxes and abraded to a rough surface prior to priming. Prime the surface as described above for plywood surfaces (metal lath not necessary). Let it dry, and then apply **Edecon LevelTop-181** as for concrete floors. Over steel surfaces, consult with Concrete Controls, Inc. Technical Service Representative to discuss the particular job conditions. DO NOT USE over particleboard, plastic, vinyl, urethane or epoxy floor coverings.

Expansion Joints: Expansion joints, saw cut, cold joints or structural fissures shall never be bridged over with **Edecon LevelTop-181**. They should continue through the **Edecon LevelTop-181** and the subsequent tile work. Joints through the work directly over structural joints must never be narrower than the structural joint. Provide expansion joints 20 to 24 feet (6 to 7.3 m) in each direction. Where floor is exposed to direct sunlight or moisture, provide expansion joints 12 to 16 feet (3.7 to 4.9 m) in each direction. Install expansion joints where **Edecon LevelTop-181** abuts restraining surfaces such as perimeter walls, dissimilar floors, curbs, columns and pipes. An architect or structural engineer must specify expansion joints and show location and details on drawings.

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Mixing: Mix **Edecon LevelTop-181** in the above dosage. Always add the powder to the total amount of liquid and mix with a 650-RPM posser mixer until a lump-free mix is obtained. For optimum mixing results, it is advisable to use a mixing paddle for minimal air entrapment in the mortar. For information on pumping **Edecon LevelTop-181**, consult a Concrete Controls, Inc. Technical Service Representative.

Placing: Pour the underlayment approximately in place and then finish with a mortar spreader. Spiked shoes should be used if it is necessary to walk in the fresh mortar. A finish blade may be used for featheredging. **Edecon LevelTop-181** will have a flow time of approximately 10 minutes. The finished floor will be ready to walk on in two (2) to four (4) hours and floor covering may be installed 12 to 24 hours later. Ceramic tile may be installed on **Edecon LevelTop-181** when the mortar is firm enough to walk on.

When placing in large areas, apply primer and create dams (using wood or weather stripping tape) across the width of the room spacing the dams 10 ft (3 m) apart. Apply **Edecon LevelTop-181** in the odd numbered swaths created by the dams and apply **Edecon LevelTop-181** to the even numbered swaths using an adequate striker to blend the material at the seams.

Curing: A minimum cure is obtained in 12 to 24 hours, depending on the ambient temperatures. As with concrete, the strength increases significantly with age during the first 28 days. Always check for moisture prior to installation of vinyl flooring.

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