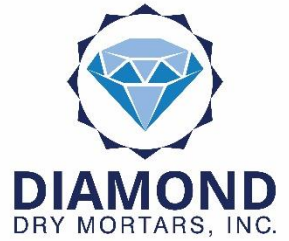


Diamond LevelPro T85

Cementitious Self Levelling Floor compound

TDS: Diamond LevelPro T85, Ver. 1. 10 Sept. 2022
Page 1/3



Product name

Diamond LevelPro T85

Manufacturer

Produced in Philippines by
Diamond Dry Mortars Inc.

Product description / General Purpose

Diamond LevelPro T85 is a premium Cementitious polymer modified shrinkage compensated self-levelling floor compound. It is meant for internal and external floors. It can be applied in several layers. Mixed with only clean potable water

Features:

- From 3 mm to 30 mm thickness in one pour
- Fast setting and high early strength
- Ultra high bonding strength
- Non-shrinking
- Water resistant
- Pumpable
- Economical, fast and easy to use

Uses:

To level up uneven floors, smoothen rough concrete and screed. Ideal for both new construction and renovation.

Recommended covering:

Ceramic and porcelain tiles, Natural stone, Carpet, Linoleum, Vinyl tile, Wood, Epoxy etc.



Application info	
Colour	Grey
Thickness	3-30 mm per layer
Coverage	Approx. 1.7 kg/m ² /mm Coverage per 25 kg: thickness Approx. coverage 3 mm 5.0 m ² 6 mm 2.5 m ² 12 mm 1.2 m ² 25 mm 0.6 m ²
Mixing ratio	18-19% water to powder. (4.6 liters water per bag)
Pot life (working time)	30 mins
Flow time	15 mins
Initial Setting	30-60 mins
Final Setting time	45-75 mins
Foot trafficable	12 hours
Ready to receive floor covering in:	24 hours for non moist sensitive 72 hours for moist sensitive
Shelf life	6 month if product is stored in dry conditions
Packing	25 kg per bag



Limitations

- Never mix with cement or admixtures.
- Do not exceed recommended mixing ratio. Over watering lead to segregation and will weaken the product, if overwatered immediately add more Diamond LevelPro T85 to bring the consistency back to the desired level. Less water can be used to make the product less fluid.
- Only install over rigid substrates. Do not install over painted or gypsum-based substrates.
- New concrete surfaces must be fully hardened (28 days old).
- Construction joints in the underlying substrate should be carried through the Diamond LevelPro T85 to avoid cracking.
- Always perform a test on the actual substrate to secure the products suitability for the intended use. This should include the floor finishing.

Surface preparation

- Ensure the substrate is sound, clean and free from any dust, loose particles and contamination like oil, grease including form-oil compounds
- Very smooth surfaces such as terrazzo, power troweled concrete, existing ceramic tiles should be mechanically abraded, or acid etched before application.
- Deeply contaminated substrates must be abraded to a clean sound surface.
- If the quality and strength of the screed or concrete substrate is not good, it should be primed with Diamond Acrylic Primer.

Physical data	Typical test result
Compression Strength ASTM C109 modified - 1 day - 7 days - 28 days	Minimum 5 N/mm ² Minimum 30 N/mm ² Minimum 40 N/mm ²
Adhesion Strength* EN 1015-12 - 7 days - 28 days	Minimum 3.0 N/mm ² Minimum 3.0 N/mm ²
Flexural Strength EN 1015-11 - 28 days	Minimum 7.0 N/mm ²
Dry bulk density EN 1015-6	1,200 to 1,300 kg/m ³

* Adhesion to the substrate depends very much on the substrate and might vary from the specified value. It is recommended to perform tests on site to verify the actual bonding with the substrate

Surface priming

- Priming the surface with Diamond Acrylic Primer prior to application of Diamond LevelPro T85 will improve adhesion, extend the flow time and reduce pinholes in the finished floor.

Mixing instructions

- 4.6 liters of water is needed for one bag (25 kg) of Diamond LevelPro T85 to be fully self leveling. When mixing one bag pour about 4.3 liters of clean portable water in the pail, add the whole bag of Diamond LevelPro T85 while mixing with a heavy duty electric drill. Mix for a few minutes. Adjust with the last 0.3 liters to get the right consistency.



- Important: If the mix get's over watered, the mix will start setting up a lot of bobbles due to segregation, where the sand will go down and water will go up . To compensate for that immediately add more Diamond LevelPro T85 to the mix to get the consistency back.
- If a stiffer mix is required, e.g. in bathrooms where a slope to the drain has to be created, use less than the 4.2 liters of water per bag.
- Do not mix more bags at the time than the mixing equipment can handle, it is important that the mix is smooth and uniform without lumps.
- For bigger areas where thicker layers of self levelling compound is needed (30-100 mm thickness) graded sand and gravel up to 8 mm can be added. Do not add more than 10 kg per bag of Diamond LevelPro T85.

Application

- Pour Diamond LevelPro T85 on to the surface.
- Move the mix into appropriate position using a self levelling flooring tools. Let the material seek its natural level.
- Diamond LevelPro has to cure for 24 hours before any floor covering is installed.
- If more layers are needed, the second layer can be placed directly on the first layer, as soon as the first layer is hard enough to support foot traffic (typical 12 hours).
- For external application: protect the surface from direct sunlight, high wind and extreme temperatures. Avoid excessive loss of moisture in the first 24 hours.



Examples of appropriate tools for placing Diamond LevelPro T85

Product Safety

Please refer to Diamond Material Safety Data Sheet.

The product is a cement-based product and may cause skin irritation. Avoid contact with skin by wearing suitable clothing and gloves. In the event of contact with skin, wash with clean water to minimize possible irritation. If any material gets into the eyes, wash immediately and repeatedly with eyewash or clean water.

If the irritation persist, seek medical treatment.

Fire resistance

The product is non-combustible.