

TECHNICAL DATA SHEET

DESCRIPTION

Level Topping Exterior is a premium cement based, nonshrink, self-leveling topping designed for leveling horizontal concrete. Level Topping Exterior only requires the addition of water to produce a flowable mixture that can be poured or pumped onto the floor. Level Topping is not a gypsum based product.

USE

Level Topping Exterior can be used to resurface sound, properly prepared concrete surfaces. It can be used on new construction projects to correct rough or unfinished concrete and to level uneven concrete slabs. On restoration projects, use Level Topping Exterior to produce a hard even finish over old concrete. Typical areas of use include walkways, balconies, patios, driveways, garage floors, loading docks, and parking decks. Level Topping Exterior is appropriate for use for foot and rubber wheeled traffic for interior or exterior applications. Walkable in 4 hours; Drive on it in 24 hours; flowable and pumpable for better productivity. Level Topping Exterior can be applied in thicknesses ranging from 0.6 to 2.5 cm neat and up to 7.6 cm extended with clean pea grave.

FEATURES

- Topping designed for interior and exterior use
- Portland cement-based
- Walkable in 4 hours
- Drive on it in 24 hours
- Pourable/pumpable
- Excellent bonding
- Non-shrink
- High compressive strength

PROPERTIES

Compressive Strength: (ASTM C-109)
 24 hours 20.7 MPa
 7 days 27.6 MPa
 28 days 34.5 MPa

Initial Set: 60-120 minutes
 Final Set: 90-150 minutes

Self-Leveling Working Time: 20 minutes at 21°C

Drying time:

4 hours for foot traffic @ 21°C
 24 hours for heavy traffic @ 21°C

Note:

The data shown is typical for controlled laboratory conditions. Reasonable variation from these results can be expected due to interlaboratory precision and bias. When testing the field mixed material, other factors such as variations in mixing, water content, temperature and curing conditions should be considered.

Estimating Guide

2.0-2.2 sq. m at 0.6 cm per 20 kg.

Packaging

PRODUCT	PRODUCT CODE	PACKAGE	SIZE
Level Topping Exterior	306188AU	bag	20 kg

STORAGE

Store in a cool, dry area free from direct sunlight. Shelf life of unopened bags, when stored in a dry facility is 12 months. Excessive temperature differential and /or high humidity can shorten the shelf life expectancy.

APPLICATION

Surface Preparation:

Substrate cleaning and preparation is critical to the overall success of the application. To prepare surface, follow all standard ACI and ICRI recommendations. All surfaces must be clean and free of contaminants that would interfere with adhesion. This includes paints and other coatings, curing compounds, sealers or water repellents, grease, oil, asphalt, dirt, dust, or chemical contaminants. All surfaces should be shot blasted or mechanically scarified to produce a profiled surface. All cracks must be repaired and filled. Cracks that exhibit movement must be either left open through the topping or repaired in such a way as to stop the movement. Any and all control, expansion, or other joints must not be filled with the Level Topping Exterior. Just prior to the application of Level Topping Exterior, dampen the surface with water. Do not apply Level Topping Exterior to a dry surface.

Mixing:

Level Topping Exterior is to be mixed in full bag batches. Do not mix partial bags. Each 20 kg bag of Level Topping Exterior is to be mixed with 3.34 L of clean, potable water. Measure and place the proper amount of water for each bag into a mixing container. Using a paddle type mixer on a slow speed drill (600-800 rpm), place the paddle in the mixing water and start the drill. Slowly add the Level Topping Exterior powder. Mix for a minimum of 2 minutes until lump free. Scrape the sides of the mixing container and remix for 1 minute. The mixed material should be lump free and have a stiff pancake batter consistency. Multiple bags may be mixed with equipment designed for cement based underlayments or toppings. Do not mix more material than can be placed within 15-20 minutes. If adding extender aggregate to the mixture, which is required for applications greater than 2.5 cm, add up to 10 kg of clean, dampened, well graded 1 cm pea gravel after the material has been mixed per the above instructions. Do not use wet aggregate for it will add water to the mix, lowering the physical properties of the material.

TECHNICAL DATA SHEET**Placement:**

Apply material to dampened surface then immediately work material into the substrate with a medium to stiff bristle broom. Follow the brooming action with additional material to bring to the desired thickness. For ease of mixing and application, use the Dayton Superior tool kit for installing Level Topping Exterior. Level Topping Exterior can be pumped using an appropriately sized grout pump. For more information on grout pumps and pumping, contact Dayton Superior technical services. Do not install Level Topping Exterior when the surface and ambient temperature is less than 4°C. During hot weather, reduce the size of the work area, keep bags of material cool prior to mixing and use cold water for mixing. Not recommended for application if air, substrate or material temperatures are above 32°C as work time, flow and leveling properties will be diminished. Protect from winds until material has reached final set.

CLEAN UP

Use water prior to material hardening. After material has hardened, abrasive methods are required.

LIMITATIONS**FOR PROFESSIONAL USE ONLY**

Protect the pour from excessive drying due to heat and wind. Do not install when the surface and ambient temperatures are below 4° C. No other admixtures are allowed to be used with this product.

PRECAUTIONS**READ SDS PRIOR TO USING PRODUCT**

- Product contains Crystalline Silica and Portland Cement – Avoid breathing dust – Silica may cause serious lung problems
- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (goggles, safety glasses and/or face shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed.
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements

MANUFACTURER

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WARRANTY

Dayton Superior Corporation ("Dayton") warrants for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Dayton, the product is free of manufacturing defects and conforms to Dayton's product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton's instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. **THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.**

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