TECHNICAL DATA SHEET

DESCRIPTION
Econolevel is a cement based, non-shrink, self-leveling interior floor underlayment that only requires the addition of water to produce a flowable mixture that can be poured or pumped onto the floor. Econolevel is not a gypsum based product.

USE
Econolevel can be used to level or create a smooth surface on interior floors. It can be used on new construction projects to correct rough, unfinished or uneven floors prior to installation of the finished flooring. Econolevel can be applied in thickness ranging from a feathered edge to 2 in. (5.1 cm) neat and up to 5 in. (12.7 cm) extended with pea gravel. It develops a superior bond to the substrate and it will accept light foot traffic normally within 4 hours depending on temperature, humidity and jobsite conditions.

FEATURES
- Walk on in 4 hours
- Install breathable/non-breathable floor covering in as little as 14-16 hours
- Install up to 5 in. (12.7 cm) thick
- High Compressive Strength
- Pumpable

PROPERTIES
Compressive Strength: (ASTM C 109):
1 day: 2000 psi (13.8 MPa)
7 days: 3500 psi (20.7 MPa)
28 days: 4200 psi (29 MPa)

Initial Set: 60- 90 minutes
Final Set: 90 - 140 minutes
Self-Leveling Working Time: 15 minutes

Drying time:
J42 / J42RTU primers – 2-3 hours at 70° F (21.10C) and 50% relative humidity.
Econolevel™ 2-4 hours for foot traffic at 70° F (21.10C)

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
Primer Concentrate, Level Primer J42: 200 - 400 sq. ft./gal. (4.92 - 9.84 sq. m/L) after dilution 1:1 with water.
Ready to use Primer, Level Primer J42RTU: 200-400 sq. ft./gal. (4.92 - 9.84 sq. m/L)
Substrate texture and porosity will influence the actual coverage rate.

Econolevel: 40 to 45 sq. ft. at 1/8 in. (3.7- 4.2 sq. m at 0.3 cm) thickness per 50 lb. (22.67 kg) bag.

Packaging

Product	Product Code	Package Type	Size	
Econolevel	308189	Bag	50 lbs	22.7 kg

Primers				
J42 Concentrate	69114	4 per case	1 gal	3.8 L
J42 Concentrate	69113	Pail	5 gal	18.9 L
J42RTU	308190	4 per case	1 gal	3.8 L

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.

Surface Preparation:
To prepare surface, follow all standard ACI and ICRI recommendations. Remove all dirt, gas, oil, grease, carpet, adhesives, asphalt, paint, curing compounds, and all loose surface materials.On tight troweled or burnished surfaces prepare surface by mechanical measures (i.e. shotblasting) to achieve a surface profile equal to a CSP 3 in accord with ICRI guidelines. 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 Econolevel. For removing dirt, grease, carpet adhesives and certain paints and curing compounds use Dayton Superior's Citrus Cleaner J48.

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Priming:
Prime concrete surface with Dayton Superior's J42 or the J42RTU using a brush or broom. Allow the primer to dry completely to the touch before proceeding, at least 3 hours at 70° F (21° C), and 50% R.H. (Do not wait longer than 72 hours.) Refer to the primer data sheets for complete instructions.

Water Requirements:
4-1/2 qt. (4.3 L) water per 50 lb. (22.7 kg) bag of Econolevel. Do not over water as that can cause segregation and a weak surface.

Mixing
Pour 4-1/2 qt. (4.3 L) of water into a mixing container, then add one 50 lb. (22.7 kg) bag of Econolevel. Never use more than 4-1/2 qt. (4.3 L) of water for mixing per bag. With a blending paddle attached to a heavy duty electric drill (650 rpm), mix for two to three minutes until mixture is smooth and free of lumps. For pumping applications, mix for one to two minutes in the pump's mixing tank. Do not over-water or retemper. Econolevel can be extended by adding 15 lbs.(6.8 kg) of 3/8 in. (1 cm) pea gravel for each 50 lbs. (22.7 kg) of product.

This is required with applications greater than 2 in. (5.1 cm) thick. First mix Econolevel as provided in earlier instructions, then during the last minute of mixing add the required aggregate.

Should a finish coat then be required, apply a non-extended layer of Econolevel after the first pour becomes walkable. Re-prime the first pour with another application of the J42 or J42RTU bonding agent.

Placement:
Minimum thickness recommended is 1/8" (0.3 cm) over the highest point in the floor but material can be feathered at edges to match an existing elevation. Pour Econolevel over the substrate spreading the material with a long-handled spreader.For large, uneven areas, use a laser or level to establish the highest point of the new pour. You can then use depth pins or set screws in the floor to indicate the correct depth of the pour.
Material can be pumped using an appropriately sized grout pump. Econolevel will level itself during the first 15 minutes at 70° F (21°C) and will accept foot traffic approximately 4 hours after installation. Do not install Econolevel when the surface and ambient temperature is less than 40° F (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 90°F (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
No admixtures are allowed to be used with this product.
Prepackaged material segregates while in the bag, thus when mixing less than a full bag it is recommended to first agitate the bag to assure it is blended prior to sampling.
Econolevel can be used on concrete with RH levels up to 99%.

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

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- 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.

Dayton shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, its obligations under any contract for sale of product, even if Dayton could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this contract, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.