

ISO LEVEL 2030

Product Data Sheet (TDS)

DESCRIPTION

ISO LEVEL 2030 is a one-component system, high-strength, regular setting, advanced hydraulic cement-based, self-leveling underlayment.

ISO LEVEL 2030 once cured, produces a durable, smooth, strong, high bond strength, flat and economical substrate over interior concrete, plywood, and other approved floor surfaces.

The typical application thickness is 3 to 25 mm. ISO LEVEL 2030 is ready for foot traffic in 10 - 12 hours and ready for coatings in about 24 hours.

Suitable for use in dry or damp conditions.



- Floor coverings (carpet, vinyl, PVC, ceramic tile, wood flooring, etc.) can be installed as soon as 1-3 days.
- Excellent underlay for tiles, sheet products, and wood floor bonding systems.

USES

- Leveling interior concrete slabs and cementitious screed.
- Interior floor leveling and smoothing applications such as:
 - Institutional - schools, colleges, hospitals, clinics, libraries, galleries, museums
 - Commercial - offices, corridors, hallways, canteens, cafeterias, stores, hotels, restaurants.
 - Residential - domestic properties, condominiums, and high-rise construction.
- UNDER:
 - Carpeting.
 - Vinyl composition tile.
 - Ceramic tile.
 - Wood Flooring.
 - Stone.
 - Resilient flooring.

ADVANTAGES

- Easy and quick to install, just mix and pour.
- Self-smoothing.
- Dimensionally stable.
- Manual or pumpable application.
- Levels new and renovates old floors.
- Suitable for overcoating with non-moisture sensitive tile after 24 hours.

PRODUCT & TECHNICAL DATA

Composition	Polymer-containing cementitious mortar with different additives										
Appearance	Grey Powder										
Bulk Density	1.65 kg/m ³										
Mix Density	2.1 kg/m ³										
Compressive strength (ASTM C 109)	≥ 10 N/mm ² at 1 days ≥ 25 N/mm ² at 3 days ≥ 30 N/mm ² at 7 days ≥ 35 N/mm ² at 28 days										
Flexural Strength (ASTM C348)	≥ 5 N/mm ² at 28 days										
Bond strength to concrete (ASTM C1583)	≥ 1.5 N/mm ² at 28 days										
Flowing Time	~ 20 minutes As the temperature will affect the pot life, application temperature: -Above (+23 °C) will reduce the pot life and flow -Below (+23 °C) will extend the pot life and flow										
Final Set	+20 °C > 12 Hours +30 °C > 10 Hours										
Waiting / Recoat Times	Light foot traffic: 10 - 12 hours for foot traffic (+23 °C) Ready for Covering: -Tile/Stone/non-moisture sensitive flooring: 1 day -PVC/ Carpet/Vinyl/Rubber flooring: 2 days -Hardwood/Engineered Wood flooring: 3 days										
Mixing ratio	5 liters of water per 25 kg bag										
Coverage / Consumption	For 5 liters of water per 25 kg bag: <table border="0"> <tr> <td>Coverage Depth</td> <td>Sq. M</td> </tr> <tr> <td>3 mm</td> <td>4 m²</td> </tr> <tr> <td>6 mm</td> <td>2 m²</td> </tr> <tr> <td>12 mm</td> <td>1 m²</td> </tr> <tr> <td>25 mm</td> <td>0.5 m²</td> </tr> </table>	Coverage Depth	Sq. M	3 mm	4 m ²	6 mm	2 m ²	12 mm	1 m ²	25 mm	0.5 m ²
Coverage Depth	Sq. M										
3 mm	4 m ²										
6 mm	2 m ²										
12 mm	1 m ²										
25 mm	0.5 m ²										

ISO LEVEL 2030

Product Data Sheet (TDS)

Application Ambient Air Temperature	(+5 °C) – (+35 °C)
Application substrate Temperature	(+5 °C) – (+35 °C)

APPLICATION PROCEDURE

Surface preparation

All materials should be stored between (5 °C) and (35 °C) 24 hours before installation for best results.

- Concrete surfaces must be mechanically profiled and prepared by shot blasting, sandblasting, water-jetting, scarifying, diamond-grinding, or other engineer-approved methods.

- Fill deep areas, holes, and cracks with appropriate concrete restoration materials.

- Thoroughly clean the surface of any substance that could interfere with ISO LEVEL 2030 bonding, including dirt, paint, tar, asphalt, wax, oil, grease, latex compounds, sealers, curing compounds, form release agents, loose toppings, foreign substances, and adhesive residue.

- Prime the floor with ISOBOND PLUS 1036 and let it dry (see Technical Data Sheet for information), do not apply primer over standing water.

- If the application is taking place over plywood flooring, installation requirements (finished flooring, load, use, and/or deflection) specify the use of a lath or diamond mesh (meeting the requirements of ASTM C847), installed according to TCNA F185 guidelines, on top of the primed surface before ISO LEVEL 2030 is applied.

Differential or excessive movement within the plywood substrate may lead to hairline cracks at plywood joints.

Mixing

Pour 5 L of cool potable water (21 °C) into a clean mixing container (do not over-watering). If available water is not at this temperature, then consideration should be given to cooling/heating the water.

Add ISO LEVEL 2030 to the water, while slowly stirring, adding the complete contents of the 25 kg bag.

Mix with a high-speed drill (more than 650 rpm) and an egg beater-style mixing paddle to blend water and powder for approximately 3 minutes, until a lump-free and uniform mix has been produced.

Do not overmix or allow the paddle to rise above the level of material as this will introduce and entrap air into the mix, potentially shortening the working life or causing pinholing in the underlayment.

Let the mixed material stand until the majority of air bubbles have dispersed.

Application

Pour the mix and spread using a smoothing trowel.

Even surfaces are easily achieved using a pin leveler.

In higher thickness using a spike roller is recommended.

Avoid contact with vertical structures by putting in an edge strip such as foam tape.

If a second layer of leveling compound has to be applied, prime the first layer with ISOBOND PLUS 1036 when the first layer is walkable. The maximum layer thickness must not be exceeded in the case of two-layer applications. The second layer must not exceed the layer thickness of the first layer.

RECOMMENDATIONS

- For interior use only, not suitable for slopes or inclines > 0.5 %.

- Do not apply ISO LEVEL 2030 onto based, chipboard, particleboard, hardboard, metal, gypsum-based floors, or dimensionally unstable substrates.

- Always prime concrete and cement substrates with ISOBOND PLUS 1036.

- Do not exceed the recommended water dosage and use clean potable water.

- Temperature variations will affect working time, with low temperatures extending drying times.
- Protect newly applied ISO LEVEL 2030 from condensation and water for at least 24 hours.
- Prevent contaminants, dust, and dirt from coming into contact with the underlayment for at least 6 hours, and do not expose to rolling dynamic loads for 3 days (at 23 °C, 50 % R. H.).
- If subsequent layers of ISO LEVEL 2030 are installed on existing, cured ISO LEVEL 2030, mechanical preparation and re-priming are required.
- As the thickness of the underlayment will influence the time at which it can be overcoated or overlaid with stones, tiles, or coverings, the manufacturer of such materials must be consulted for guidance regarding substrate moisture content and other characteristics.
- ISO LEVEL 2030 does not provide an aesthetic finish and is intended to receive a final floor covering.

CURING

Protect curing ISO LEVEL 2030 layers from high ambient temperatures, and direct sunlight and ensure adequate ISO LEVEL 2030 must be protected from any type of contamination by installing a suite coating.

As floor coverings vary, always contact and rely upon the floor covering manufacturer for specific directions such as maximum allowable moisture content, adhesive selection, and intended end use of the product.

Low substrate temperatures and/or high ambient humidity require longer drying times for primers. All cement-based products have the potential for cracking.

Cracking, such as hairline cracking cannot be considered as a product defect or installation failure.

CLEANING

Clean all the tools with water immediately after use.

Hardened materials can be removed mechanically only.

PACKING

ISO LEVEL 2030 is supplied with 25 kg bags.

SHELF LIFE

Shelf life is up to 12 months from production date when stored as per recommendations.

STORAGE

Product must be stored in original unopened packaging, under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

HEALTH AND SAFETY

As with all construction chemical product, caution should be always be exercised.

Protective clothing such as gloves and goggles should be worn.

Treat any splashes to the skin or eyes with fresh water immediately.

Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

Prior to use of any ISOBIT product, its subsidiaries, or affiliates, the user should always read and follow the warnings and instructions on the latest version product technical data sheet. ISOBIT guarantees its products against defective materials within the validity period of the product when properly stored, handled, and applied under normal conditions in accordance with ISOBIT's recommendations. ISOBIT does not guarantee the use and application of these products because the terms of their application are beyond its control. ISOBIT reserves the right to change the characteristics of its products and to modify the technical releases without prior notice.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL



E: info@isobitiraq.com.

ISOBIT for Building Chemicals

