

Novoplan Easy Plus

Easy-Preparation, Self-Leveling Underlayment



DESCRIPTION

Novoplan® *Easy Plus* is a high-strength, self-leveling, calcium-aluminate-based underlayment and repair mix for interior concrete and engineer-approved floors. Its unique formulation allows for direct application on substrates that are clean, securely bonded and properly primed.

FEATURES AND BENEFITS

- For leveling, smoothing and repairing interior floors
- Ready for tile in 24 hours

INDUSTRY STANDARDS AND APPROVALS

- Meets compression and flatness requirements of ASTM F710, Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
- Meets compression and flatness requirements of ASTM F2873, Standard Practice for the Installation of Self-Leveling Underlayment, and the Preparation of Surface to Receive Resilient Flooring

Green certifications

- Living Building Challenge (LBC) Red List Free: This product has been verified per the most current Red List on the LBC's Website.

WHERE TO USE

- For leveling, smoothing and repairing of interior residential or commercial floors before the installation of floor coverings
- For use over radiant-heated floors or to encapsulate hydronic or electric radiant-heated floors

LIMITATIONS

- Do not mix with other self-leveling underlayments.
- Do not install over unprimed surfaces.
- Do not install over flooring products, adhesive residues or substrates containing asbestos.
- Do not use for exterior applications. For interior use only.
- Do not apply *Novoplan Easy Plus* unless the substrate temperature is maintained at between 50°F and 90°F (10°C and 32°C) for 48 hours before, during and after application. Do not allow freshly installed *Novoplan Easy Plus* to freeze.
- Do not use as a final wear surface. Cured *Novoplan Easy Plus* must be covered with a finished floor system or floor covering.
- Do not install over standing water.
- Do not install over dimensionally unstable materials.
- Do not install if the maximum allowable deflection of the supporting surface exceeds L/360 (or L/720 for installations involving natural stone or their agglomerates) when exposed to live or dead loads.
- Do not use in areas subjected to prolonged exposure to moisture. Contact MAPEI's Technical Services Department for waterproofing recommendations.
- Do not use as a moisture mitigation product. Cement-based self-leveling underlayments do not reduce moisture vapor transmissions emanating from high-humidity concrete slabs. If the flooring or installation system requires protection from elevated humidity levels, moisture mitigation must be done before *Novoplan Easy Plus* is installed. Contact MAPEI's Technical Services Department for recommendations regarding moisture mitigation.

SUITABLE SUBSTRATES

- Concrete that is installed in compliance with ASTM F710, that is at least 28 days old, and that is free from hydrostatic pressure, osmotic blistering and alkali silica reaction
- Well-bonded and dimensionally stable ceramic tile, porcelain tile, quarry tile, natural stone, vinyl composition tile (VCT), cement, epoxy-based moisture barriers and epoxy terrazzo
- Properly installed cement backer units
- Durable and fully cured cement-based mortar beds
- Engineer-approved plywood and oriented strand board (OSB) subfloors with a maximum of 19.2" (48.77 cm) on center joist placement and that meets requirements of L/360
- Nailed-down wood flooring (including plank wood subfloors, strip wood subfloors and nailed-down solid wood flooring) that has been covered over with at least one layer of 5/8" (16 mm) plywood, glued and screwed
- Gypsum-based underlayments
- *Mapeheat™ Membrane*, *Mapeguard® UM* and similar crack-isolation and uncoupling membranes (these do not require priming)

SURFACE PREPARATION

- All substrates must be properly prepared, structurally sound, stable, solid, dry, and primed with an appropriate MAPEI primer unless otherwise noted.
- On concrete substrates, fill in deep areas, holes and cracks with an appropriate MAPEI patching compound or screed. Fluid self-leveler may leak through to a floor below or other unwanted cavities.
- On plywood substrates, fill joints with an acrylic-based caulking compound to prevent the underlayment from leaking into a floor below.

Refer to MAPEI's reference guide "Surface-Preparation Requirements for Self-Leveling Underlayments" for details on proper surface preparation.

MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

1. Based on the number of bags to be mixed, measure and pour the required amount of water (see "Mixing ratio" in the chart below) into a clean mixing vessel such as *MAPEI Self-Leveling Mixing Barrel* or a plastic pail that can hold at least 5 U.S. gals. (18.9 L). For best results, the water temperature should be at about room temperature (70°F or 21°C). The mixing ratio must remain consistent; do not overwater the mixture.
2. Slowly add the powder into the pre-measured water, taking care to not generate excessive dust. Use a high-speed drill and an oval paddle mixer to mix *Novoplan Easy Plus* to a homogenous, lump-free consistency.
3. Continue to mix for 2 to 3 minutes. Do not overmix: Overmixing or moving the mixer up and down during the mixing process could trap air or cause pinholing during the application and curing process.

PRODUCT APPLICATION

Read all installation instructions thoroughly before installation.

1. Substrates and ambient room temperatures should be maintained at between 50°F and 85°F (10°C and 29°C) during application as well as for 3 days before and after application.
2. Before product installation, close doors and windows, and turn off HVAC systems to prevent drafts during application and until the underlayment is cured. Protect installation areas from direct sunlight.
3. Quickly pour or pump mixed self-leveling compound onto the surface in a ribbon pattern. Set the width of the pour at a distance that is ideal for maintaining a wet edge throughout placement. For best results, work as a team to provide a continuous flow of wet material, to avoid trapping air or creating a cold joint. Apply enough material to adequately cover all high spots.
4. Shortly after placing *Novoplan Easy Plus*, use a gauge rake to spread the material and assist in gauging it to the desired depth. After achieving the desired depth, use a smoother to obtain an even surface.

CURING

- *Novoplan Easy Plus* is self-curing. Do not use a damp-curing method, or curing and sealing compounds.
- Cool-weather conditions may extend curing or setting times. Warmer weather conditions may accelerate working, curing and setting times.

CLEANUP

- Wash hands and tools with water promptly before the material hardens. Cured material must be mechanically removed.

PROTECTION

- Protect *Novoplan Easy Plus* from direct sunlight, excessive heat and drafty conditions during curing. Turn off all forced ventilation and radiant heating systems, and protect the installation for up to 24 hours after completion.
- Avoid walking on the installed surface for at least 2 to 3 hours after installation, depending upon temperature and humidity conditions.
- Protect the installation from traffic, dirt and dust from other trades until *Novoplan Easy Plus* is completely cured and final flooring has been installed.
- Do not expose *Novoplan Easy Plus* to rolling dynamic loads, such as fork lifts or scissor lifts, for at least 3 days after installation.

Product Performance Properties

at 73°F (23°F) and 50% relative humidity (RH)

Laboratory Tests	Results
Cured density	128 lbs. per cu. ft. (2.06 kg per L)
Wet density	129 lbs. per cu. ft. (2.07 kg per L)
pH (of wet mixture)	11
VOCs (Rule #1168 of California's SCAQMD)	0 g per L
VOCs (Section 01350 of California's CDPH)	Passed
Compressive strength – ASTM C109 Modified	
7 days	> 3,000 psi (20.7 MPa)
28 days	> 3,500 psi (24.1 MPa)
Flexural strength – ASTM C348 (CAN/CSA-A23.2-8C)	
28 days	> 750 psi (5.17 MPa)
Pull-out strength – ASTM C1583	
28 days	> 505 psi (3.48 MPa)

Shelf Life and Product Characteristics

before mixing

Shelf life	1 year in original, unopened packaging stored at 73°F (23°C) and 50% RH
Physical state	Powder
Color	Gray

Protect containers from freezing in transit and storage. Provide for heated storage on site and deliver all materials at least 24 hours before work begins.

Application Properties

Application temperature range	50°F to 85°F (10°C to 29°C)
Mixing ratio	5 to 5.28 U.S. qts. (4.73 to 5.0 L) of room temperature water per 50 lbs. (22.7 kg) of powder
Mixing time	2 to 3 minutes
Flow time	Up to 15 minutes
Single-lift application range	1/8" to 1" (3 mm to 2.5 cm)
Minimum thickness over highest point in floor	1/8" (3 mm)
Waiting time before secondary applications of primer and self-leveling compounds	24 hours
Drying time before installation of non-moisture-sensitive floor coverings at 70°F (21°C) at 1" (2.5 cm) thickness*	24 hours
Drying time before installation of moisture-sensitive floor coverings at 70°F (21°C) at 1" (2.5 cm) thickness*	2 to 3 days

* Note that shorter drying times may be obtained with thinner applications.

CSI Division Classification

Cast Underlayment	03 54 00
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Packaging

Size	Bag: 50 lbs. (22.7 kg)
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Approximate Coverage**

per 50 lbs. (22.7 kg)

Thickness	Coverage
1/4" (6 mm)	24 sq. ft. (2.23 m ²)
1/2" (12 mm)	12 sq. ft. (1.11 m ²)
3/4" (19 mm)	9 sq. ft. (0.84 m ²)
1" (2.5 cm)	6 sq. ft. (0.56 m ²)

** Coverage shown is for estimating purposes only. Actual jobsite coverage may vary according to substrate conditions, type of equipment, thickness applied and application methods used.

RELATED DOCUMENTS

- Reference Guide: "Surface-Preparation Requirements for Self-Leveling Underlayments"***
- Reference Guide: "Primers for Self-Leveling Materials"***

*** At www.mapei.com

ADDITIONAL INFORMATION

Refer to the SDS for specific data related to health and safety as well as product handling.

For information on MAPEI's commitment to sustainability and transparency, as well as how MAPEI products may contribute to green building standards and certification systems, contact sustainability_USA@mapei.com (USA) or sustainability-durabilite@mapei.com (Canada).

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement nor replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. **ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.**

Before using, the user must determine the suitability of our products for the intended use, and the user alone assumes all risks and liability. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

CONTACT INFORMATION

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Edition Date: August 30, 2023 MK 3004071 (22-3307)

For the most current product data and BEST-BACKEDSM warranty information,
visit www.mapei.com.

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