MAXLEVEL® SILENT

ACOUSTIC ISOLATION AND IMPACT SOUND REDUCING SELF-LEVELLING MORTAR

DESCRIPTION

MAXLEVEL® SILENT is a one-component self-levelling mortar, based on polymer-modified cement, selected aggregates and special additives. Once mixed with water, ***MAXLEVEL® SILENT*** provides a very fluid mortar for levelling indoor floors, with acoustic isolation and impact sound reducing properties.

APPLICATION FIELDS

- Soundproofing and impact noise reducing of pavements in residential buildings, hospitals, hotels, offices, etc.
- Soundproofing self-levelling underlayment as indoor subfloor before the application of other floor-surfacing systems such as ceramic tiles, carpets, stone, wood, vinyl sheeting, epoxy and polyurethane topcoats, etc.
- Repair and levelling on terrazzo, tiles, stone and concrete pavements with spalls, cracks and unevenness.

ADVANTAGES

- Good impact sound and acoustic insulating properties: 18 dB at 15 mm layer thickness.
- Easy to mix and use: just add water and apply manually by pouring or mechanically by pumps.
- High fluidity and self-levelling properties.
- Fast hardening: allows installation of others floor surfacing-systems in 24 hours.
- Provide a suitable surface for tiling with ***MAXKOLA®*** range adhesive mortar.
- Stress-free hardening, even in thick layers applied at once.
- Environmentally friendly: non-toxic, cement-based and solvent-free product.

APPLICATION INSTRUCTIONS

Surface preparation
Surface to be levelled must be structurally sound, firm, without cement laitance and preferably with a slight roughness, i.e. open textured surface. Minimum bond strength of substrate must be above 1 N/mm^2. Surface must be clean and free of paints, coatings, efflorescence, loose particles, grease, oils, curing agents, form release agents, dust, gypsum plasters, organic growth or any other contaminants that may affect to adhesion.

For substrate preparation, preferably in case of smooth and/or poorly absorbent substrates, use sand blasting or high pressure water cleaning methods, not being desirable aggressive mechanical or chemical means.

All voids, holes, static cracks or any others defect deeper than 8 mm, once opened and routed must be repaired with ***MAXROAD®*** (Technical Bulletin No. 27).

Mixing
A 15 kg bag of ***MAXLEVEL® SILENT*** is mixed with 4,8 litres (32 % ± 1 %) of clean water. Pour the water in a clean container and then slowly add ***MAXLEVEL® SILENT*** to mix, using a slow speed drill (400-600 rpm) fitted with a disc mixer for about 1-2 minutes until achieving a smooth, lump-free and homogeneous mortar.

Do not mix for prolonged period nor use high-speed mixer, which may introduce air bubbles. Allow the mixture to rest for 2-3 minutes to fully wet out all the powder and remix briefly before applying. For applications by pumping means, ensure to keep the same mixing ratio.

Application
Prime surface with ***MAXPRIMER® FLOOR*** (Technical Bulletin No. 230) for best adhesion and prevent air bubbles from porous substrates. Thus, dilute 1 part of ***MAXPRIMER® FLOOR*** with 3

parts of water, and then apply a homogeneous and continuous coating by brush or broom without leaving any puddles. Estimated consumption of the above dilution is from 0,20 to 0,25 kg/m^2 per coat. If necessary, on very porous surfaces two or three successive coats may be required to seal the surface, with a drying time of about 10-15 minutes at 20 ºC between coats.

Allow ***MAXPRIMER® FLOOR*** dry to touch before applying any cement mortar. Drying time depends on temperature, relative humidity, ventilation and porosity of the substrate. Usual drying time in normal conditions is 4 hours at 20 °C. With low temperatures, high humidity or poor ventilation, the drying time can be increased up to the next day after application. Do not allow more than 24 hours before applying the cement-based mortar.

Place and spread ***MAXLEVEL® SILENT*** in a single step with a rubber squeegee or toothed trowel to the desired thickness from 5 to 15 mm per layer.

Apply in delimited sections in advance that should be finished completely to avoid cold joints in non desired places. Limits of each section should coincide with contraction or concrete joints of pavement.

Before ***MAXLEVEL® SILENT*** begins to set, i.e., about from 20 to 30 minutes at 20 ºC, use a spiked roller to eliminate entrapped air on surface. Twenty four hours after application, sawcut contraction joints on each limit or every 36 m^2 maximum if there are not present on concrete base. Isolation joints must be provided on the perimeter between ad-joining parts.

Expansion joints must not be covered by ***MAXLEVEL® SILENT*** and should be sealed with any suitable flexible sealant from ***MAXFLEX®*** range.

Application conditions
Do not apply when rain, contact with water, condensation, dampness and dew is expected within the first 24 h.

The optimum temperature range for application is from 15 ºC to 25 ºC. Do not apply with substrate and/or ambient temperature is at or below 5°C, or when temperatures are expected to fall bellow 5 °C within 24 h after. Do not apply to frozen or frost-covered surfaces.

Do not apply with substrate and/or ambient temperatures higher than 35 °C. Avoid applications in areas exposed directly to the sunlight with high temperatures.

Curing
With hot weather conditions (> 30 ºC), prevent the quick drying of ***MAXLEVEL® SILENT*** and protect from extreme heat and direct sunlight in order to maintain its moisture for at least 24 hours after the application by using polyethylene sheeting or damp burlaps. Do not use curing agent nor wet the surface.

For a thickness layer of 15 mm, allow to cure for at least 24 h, at 20 ºC and 50% R.H., before opening to pedestrian traffic or installation of finish floor (tiling). A greater thickness, lower temperatures and/or higher R.H. values increase the curing time.

Cleaning
All application tools must be cleaned immediately with water after use. Once product hardens, this can only be removed by mechanical means.

CONSUMPTION

Estimated consumption for ***MAXLEVEL® SILENT*** is 1,0 kg/m^2·mm.

These figures are for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

IMPORTANT INDICATIONS

- To use only for indoor applications.
- Do not apply on substrates subject to permanent contact with water or raising damp.
- In wet areas such as bathrooms, kitchens, etc., apply a waterproofing coating from ***MAXSEAL®*** range on top of ***MAXLEVEL® SILENT*** surface.
- Allow new concrete and mortars a curing time of 28 days before application.
- Do not add cements, additives, or other compounds.
- Do not use leftovers from previous mixes.
- Observe the recommended thickness per layer.
- For other uses not specified in this Technical Bulletin or further information, consult the Technical Department.

PACKAGING

MAXLEVEL® SILENT is supplied in 15 kg bags. It is available in grey colour.

STORAGE

Twelve months in its unopened and undamaged original sealed packaging. Store in a cool, dry and covered place, protected from moisture, freezing and direct sunlight, at temperatures above 5 ºC.

SAFETY AND HEALTH

MAXLEVEL® SILENT is not a toxic product but is an abrasive compound. Avoid direct contact with skin and eyes, and breathing dust. Use rubber gloves and safety goggles when applying the product. In case of skin contact, wash affected area with soap and water. In case of eye contact, rinse immediately thoroughly with clean water but do not rub. If the irritation persists, seek medical assistance.

Consult the Safety Data Sheet for ***MAXLEVEL® SILENT.***

Disposal of the product and its packaging must be carried out according to the current official regulations and it is responsibility of the final user of the product.

TECHNICAL DATA

Product characteristics	
General appearance and colour	Grey powder
Mixing water ratio, (%, by weight)	32 ÷ 1
Application and curing conditions	
Minimum application temperature for substrate and ambient, (ºC)	> 5
Pot life at 20 ºC & 50 R.H., (min)	45
Initial / Final setting time at 20 °C & 50% R.H., (h)	2 / 3
Total curing time al 20 ºC & 50% H.R., for pedestrian traffic and tiling, (h)	24
Cured product characteristics	
Impact sound reduction at 15 mm layer thickness, UNE-EN ISO 140-8 (dB)	18
Thermal conductivity coefficient, EN 12664-2002, λ (W/m·K)	0,270
Thickness / Consumption*	
Minimum-maximum thickness per layer, (mm)	5 – 15
Consumption per layer, (kg/m^2·mm)	1,0

* These figures are for guidance only and may vary depending on porosity, texture, substrate conditions and application method. Perform a preliminary test on-site to ascertain the total consumption exactly.

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. ***DRIZORO®, S.A.U.*** reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.

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