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PLAN-10 N

High-performance, ultra-quick setting self-leveling mortar used in layers 1 to 10 mm thick.

substrate preparation

TECHNOKOLLA®

A SIKA BRAND

plan-10 n

EN 13813

CT C3 0 F7 EN 13813

MAIN FEATURES

Indicated for applications on heated screeds.
Thickness up to 20 mm when charged with aggregates.
Indicated under the action of wheeled chairs or furniture according to EN 12529, thickness over 1 mm.
It can be pumped.
High hardness and resistance.
Low surface porosity.
Smooth finishing.
Easy to polish.
Modified polymer.
Hardening by hydration.
High capacity of levelling irregular surfaces.
It develops low tensions.

LOW-VOC
product

ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

APPEARANCE

Grey powder

STORAGE

8 months in dry place

FIELDS OF USE

- PLAN-10 N is designed to fill and level the substrate before the laying of indoor ceramic, textile, flexible or wooden floors in residential and non-industrial applications.

SUBSTRATES

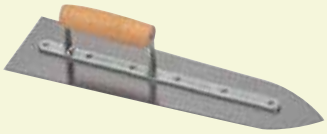
- Suitable substrates: concrete, cement-based screeds, rapid cement-based screeds, screeds based on calcium sulphate, ceramic tiles, natural stone, magnesite screeds, wood, OSB or mechanically fixed chipboard.
- The substrate must have a sufficient mechanical resistance, a good dimension stability and be permanently dry.
- The substrate must be free of elements reducing adhesion such as dust, dirt, oils, greases, waterproof coats and detached parts.
- Separation layers, synthetic layers or old levelling products must be removed mechanically, such as by polishing or shot-peening.
- The layers of water-soluble adhesives must be removed mechanically. The remaining adhesive parts must be treated with PRIMER-101 PLUS.
- Old water-resistant adhesives must be removed mechanically.
- Surface treatments or crumbling parts must be removed completely.
- It is recommended to use the monocomponent primers listed in the table to get a surface without pores with high adhesion. See the relevant Product Data Sheets.
- Do not apply on substrates with rising damp. A vapour barrier in compliance with the national regulations and norms must be applied in case of rising damp.

substrate preparation

RECOMMENDEDACCESSORIES

Blender

Spiked roller



Flat trowel

- Before the application, check that the chipboard or OSB panels are perfectly fixed to the substrate. OSB panels must be ground.
- Avoid any leakage of PLAN-10 N through cavities or cracks.
- Comply with all requirements defined in the norms and guide lines in force.

Note: consult table for preliminary treatment:

SUBSTRATES ALLOWED	CEMENT SCREED ABSORBENT VERY ABSORBENT	AERATED CONCRETE	ANHYDRITE SCREEDS CHIPBOARD OR OSB PANELS	OLD CERAMIC OR MARBLE FLOORS	WATER- OR ELECTRICALLY-HEATED SCREEDS
PRELIMINARY TREATMENT					
PRIMER-T PLUS	X		X		X
PRIMER-101 PLUS		X		X	

CLADDING MATERIALS

Ceramic or natural stone tiles, carpeting, plastic cladding materials, glued or floating parquet, paint and linoleum.

NATURE OF THE PRODUCT

PLAN-10 N mainly consists of high-strength cements, selected quartz mineral charges, organic copolymers and specific additives.

For further details, ask the technical office for the safety brief or download it from the web site www.technokolla.com.

HOW TO PREPARE THE MIXTURE

Blend PLAN-10 N with approximately 6.3 l. of clean water per 25 kg bag (25±1%) until mixture is homogeneous and lump-free. To prevent lumps from forming (very harmful with this type of product), start blending with just a little water so as to obtain a homogeneous, very viscous paste. After this, add more water to achieve the right consistency, which must be fluid/viscous. Be careful not to add too much water as this would cause the leveling mortar to completely detach. Leave mixture to rest for 2-3 minutes, then scrape the bottom of the receptacle with a knife of trowel to make sure that the product has not separated. If this is the case, add more PLAN-10 N powder to the mixture, briefly blend again and pour onto the substrate. Use blender at low speed to mix the product as high speed will combine too much air into the mixture and impair the smoothness of the finish. The product can also be pumped by machine. Comply with the machine manufacturer's instructions.

APPLICATION

Pour the product on the floor and spread it on the whole surface with metal pointed trowel or squeegee. Using a pin bubble-breaker roller is not necessary usually.

Free edges and joints must be limited with containing elements higher than the finished level of the product preventing any leakage. The levelling coat must respect the thickness and flatness required by the manufacturer of the tiles or flooring systems.

In case of high thickness, arrange an insulating strip all along the perimeter.

Avoid any contact with metal pipes, above all galvanised steel pipes, as they do not have a sufficient anti-corrosion resistance. They must be sealed in case a contact is envisaged.

Protect the product against high temperatures, direct sun rays and wind when still fresh.

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WARNINGS AND RECOMMENDATIONS

- do not apply PLAN-10 N in layers less than 2 mm thick if the floor must be covered with parquet
- do not apply to substrates subject to flexural stress
- do not use on substrates subject to continuous rising damp
- do not apply in layers more than 10 mm thick
- do not add anything to the product that is not specified in this data sheet
- do not use the product once it has started to set, by adding water to make it more workable. Prepare fresh mixture
- do not use on old wooden floors
- do not use outdoors
- do not apply at temperatures lower than 5°C or higher than 30°C

CONSUMPTION

1.5 Kg/m^2 per mm of thickness

TECHNICAL DATA	VALUE	STANDARD
Appearance	Grey powder	
Water required for mixing	6.3 l per 25 kg bag	
Curing time	2 min	
Pot life	*30 min	
Minimum thickness	1 mm	
Maximum thickness	10 mm, 20 mm with aggregate**	
Treadable	after 3-4 h	
Waiting time for ceramic tiles or textile flooring	*after 24-36 h	
Waiting time for plastic or parquet flooring	*48-72 h	
Compressive strength after 28 days	≥ 30 N/mm^2	EN 13892-2
Flexural strength after 28 days	≥ 7.0 N/mm^2	EN 13892-2
Reaction to fire	A1fl	EN 13501-1

* these time intervals refer to a temperature of 20°C-50% R.H.. They become shorter with higher temperatures and longer at lower temperatures.
** add 16 kg or 10 l of quartz sand 0.1 - 3.0 mm every 25 kg bag of PLAN-10 N (~65 % in weight). ≤ 6.3 l of water every 25 kg of PLAN-10 N.

FRENCH VOC LABEL

Emission class	r.p. No. Eurofins
Classe A+	392-2022-00170304_E_EN

SPECIFICATION

Horizontal substrates must be leveled with fast-setting, cement-based self-leveling mortar such as TECHNOKOLLA's PLAN-10 N, which can be covered after 24 h with resilient materials and parquet.

Technokolla reminds you to examine the "**notes**" document that completes the information in this data sheet.
The document can be downloaded in the pdf format from the website www.technokolla.com.

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