

PRODUCT DATA SHEET

Sikafloor®-4020 FiberLevel

FAST DRYING HYBRID SELF-LEVELLING & SMOOTHING COMPOUND

DESCRIPTION

Our hybrid technology of low tension calcium sulphate combines with fast drying of cementitious systems.
This special high polymer formulation and embedded fibres provide reinforcement suitable for wood, timber or CFC type subfloors.

USES

- Recommended underlayment for all Commercial & Domestic floor coverings
- Suitable to be applied over semi-flexible substrates such as soundly fixed/adhered timber, chip board, plywood or CFC sheet
- Suitable to be applied with underfloor heating systems
- Levelling of new or old concrete substrates
- Levelling over soundly adhered tiles, stone or vinyl
- Interior applications

PRODUCT INFORMATION

Composition	Hybrid technology, containing calciumsulfate and cement
Packaging	20 kg bags
Shelf life	Unopened bags can be stored for up to 12 months in a cool, dry and weatherproof environment.
Storage conditions	Bags must be stored off the floor. Avoid sitting bags in direct sunlight prior to application.

CHARACTERISTICS / ADVANTAGES

- Fiber reinforced
- High compressive & flexural strength
- Very low VOC
- Fast drying
- Light foot traffic after 2hrs
- Good potlife
- Install moisture sensitive flooring after 6hrs
- Versatile subfloor application

SUSTAINABILITY

IBU Environmental Product Declaration (EPD)

APPROVALS / CERTIFICATES

- Green Star (VOC-SCQMD Rule 1168)

Appearance and colour powder, white

TECHNICAL INFORMATION

Compressive strength	Time	Temperature	Value	EN 13892-2
	1 day	23°C	~17MPa	
	28 days	23°C	~35MPa	
Tensile strength in flexure	Time	Temperature	Value	EN 13892-2
	28 days	23 °C	~7 MPa	
Water absorption	Porous			
Reaction to fire	A2 _{fl} - S1 (Non-combustile material)			

SYSTEM INFORMATION

System structure	Porous	Non-porous	Semi-flexible
	Concrete	Tiles, vinyl or epoxy coating	Timber/wood/CFC
	* Sikafloor® 01 Primer (AU) - Diluted, or	Sikafloor®-14 Prep N Prime	Sikafloor® 01 Primer (AU) - Neat
	* Sikafloor® 08 Primer (AU) - Diluted		Sikafloor® 08 Primer (AU) - Neat
	or		
	* Sikafloor® Level Pro Primer - Neat		
	Sikafloor®-4020 FiberLevel	Sikafloor®-4020 FiberLevel	Sikafloor®-4020 FiberLevel
	Subsequent suitable material	Subsequent suitable material	Subsequent suitable material

APPLICATION INFORMATION

Mixing ratio	4.3 - 4.4 Litres of clean cool water per 20 kgs of powder
Yield	12L - 4m2 @ 3mm thickness
Layer thickness	3 - 20 mm
Ambient air temperature	+5 °C min / -35 °C max.
Substrate temperature	+5 °C min / ~30 °C max.
Pot Life	~20 min. at 23 °C
Waiting time to overcoating	Allow 6 - 7 hours at 23°C prior to installing moisture sensitive flooring. Allow 5 - 6 hours at 23°C prior to installing tiles or stone. Important Note: Before tiling, the dry Sikafloor®-4020 FiberLevel surface must be primed with Sikafloor® 01 Primer (AU) or Sikafloor® 08 Primer (AU) "NEAT" undiluted. The undiluted applied Sikafloor® 01 Primer (AU) or Sikafloor® 08 Primer (AU) must dry for 2 hours minimum before tiling begins.
Applied product ready for use	Light foot traffic after ~2 hours.

BASIS OF PRODUCT DATA

Made in Germany

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Due to high content of fibers, full bags should be mixed to guarantee even distribution of the fibers.
- Sikafloor®-4020 FiberLevel is a special Hybrid binder based leveling compound which is not compatible with other cements.

- Contact to metal like water bearing pipes must be avoided (e.g. sealing of pipe penetrations), because especially galvanised steel pipes have no sufficient corrosion protection.
- All AU/NZ standards should be followed as part of installing Sikafloor®-4020 FiberLevel along with subsequent flooring material supplier.
- Do not mix or apply Sikafloor®-4020 Fiber Level in temperatures below 5°C and above 35°C and under hot and windy conditions.
- Keep product cool prior to mixing and do not leave bags in direct sun for extended periods.
- All construction/expansion joints in existing concrete must be reflected through Sikafloor product as soon as possible to do so and detailed correctly as per design.
- Not recommended as a trafficable surface.
- Do not use on sloped surfaces that require drainage.
- Drying is dependent on thickness of application, temperature, air flow & relative humidity.
- Increased air flow will help with drying speeds.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

High speed heavy duty electric drill, mixing paddle & suitable size bucket/vessel - 20L +

SUBSTRATE QUALITY / PRE-TREATMENT

SUBSTRATES:

Concrete

Concrete floors should be fully cured, structurally sound, clean, dry, and free of surface contaminants and dust for Eg. Concrete must be porous and accept water penetration. Test by lightly sprinkling water on various areas of the substrate. If water penetrates, then a good bond with *Sikafloor® 01 Primer (AU)* or *Sikafloor® 08 Primer (AU)* or *Sikafloor® Level Pro Primer* can be achieved.

If water beads and fails to be absorbed by the concrete surface contaminants are present then loss of adhesion may occur. Contaminates that are present should be mechanically removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure. If the concrete substrate has efflorescence or high moisture (RH) and moisture sensitive flooring is being installed Sikafloor® moisture barrier system should be considered.

Pre-existing Flooring/Coating (tiles, vinyl or epoxy)

Pre-existing floor coverings must have adequate strength, load-bearing capacity, should be soundly adhered to the substrate, be dimensionally stable, permanently dry and show no signs of delamination or movement. The surface must also be clean, dry and free of residues which will reduce adhesion, e.g. dust, dirt, oil, grease, wax, cleaning agents and loose particles.

When installing over old flooring Sika® recommends mechanical abrasion (sanding/grinding) be carried out to achieve a fresh non-contaminated surface.

This is to be followed by a thorough clean prior to installing *Sikafloor®-14 Prep 'N' Prime* & *Sikafloor®-4020 FiberLevel*.

Timber/wood/CFC sheeting & Scyon

Timber/wood, CFC sheeting & Scyon should have adequate strength, load-bearing capacity, should be firmly fixed, be dimensionally stable, permanently dry and show no signs of delamination or excessive movement. The surface must also be clean, dry and free of residues which will reduce adhesion, e.g. dust, dirt, oil, grease, cleaning agents and loose particles. Wax coatings and other loose friable materials must be removed by mechanical abrasion (sanding/grinding). When installing over Pre-existing Timber/wood, Sika® recommends mechanical abrasion (sanding/grinding) be carried out to achieve a fresh non-contaminated surface.

This is to be followed by a thorough clean prior to installing a neat coat of *Sikafloor® 01 Primer (AU)* or *Sikafloor® 08 Primer (AU)* & *Sikafloor®-4020 FiberLevel*.

PRIMING:

Porous Priming (concrete)

> *Sikafloor® 01 Primer (AU)* or *Sikafloor® 08 Primer (AU)* – Mix ratio diluted 1:2 or 1:3 with clean water.
> *Sikafloor® Level Pro Primer* - undiluted (Neat)

Note: Correct amount of priming liquid should always be applied to the prepared substrate giving good penetration and film build. Thin applications may result in pinholing in finished surface or debonding levelling compound from the substrate. Do Not allow primer to pool while drying. On particularly porous (mechanically prepared) surfaces or where the initial prime coat absorbs immediately a second coat is recommended.

Average dry time 20–30 min (per coat).

Non-porous Priming (tiles, vinyl or epoxy)

> *Sikafloor®-14 Prep N Prime* – undiluted (Neat)

Note: When applying primer to Non-porous surface use a paint roller and apply one even coat.

Sikafloor®-14 Prep N Prime **Must Be Completely Dry (50-60 min +)** prior to applying *Sikafloor®-4020 FiberLevel*.

Semi-flexible (timber, wood, CFC, scyon)

> *Sikafloor® 01 Primer (AU)* or *Sikafloor® 08 Primer (AU)* – undiluted (Neat)

Note: When applying primer to *Timber/wood/CFC* & *Scyon* use a paint roller and apply one even coat.

Sikafloor® 01 Primer (AU) or *Sikafloor® 08 Primer (AU)* (Neat) **Must Be Completely Dry (90-120min)** prior to applying

Sikafloor®-4020 FiberLevel.

MIXING

1. Mix the entire 20kg bag of Sikafloor®-4020 Fiberlevel with 4.3 - 4.4 Litres of clean, cool water.
 2. Slowly add powder to the water while mixing thoroughly at high speed for 2 minutes to a lump free consistency.
 3. Let product stand for 2 minutes, then re-stir for another 30 seconds before applying mixed product
- Note,** not mixing for the recommended time, at high speed, letting the product stand or additional water may result in poor product performance and possible failure.

APPLICATION

1. Pour or Pump Sikafloor®-4020 FiberLevel, then spread with a long handled stand up trowel as required.
2. For touch-ups, use a flat steel hand trowel.
3. Areas of application must have fresh airflow to assist with product hydration and drying. Closed off rooms with no fresh air will retard the curing/drying process and possibly lead to product failure.

Note, If a second layer of Sikafloor®-4020 FiberLevel is to be applied, the first layer should be primed with *Sikafloor®-01 Primer (AU)* or *Sikafloor® 08 Primer (AU)* diluted 1:1 with clean cool water. The second layer may not exceed the layer thickness of the first.

CLEANING OF EQUIPMENT

Clean tools and equipment with warm water and detergent while the product is still wet.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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Product Data Sheet

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