BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-262 AS N

2-part epoxy smooth electrostatic conductive floor covering

SIKA NZ APPROVED CONTRACTOR ONLY

AVAILABLE ON INDENT ORDER ONLY

DESCRIPTION

Sikafloor®-262 AS N is a two part, self-smoothing, coloured epoxy resin coating.

USES

Sikafloor®-262 AS N may only be used by experienced professionals.

The Product is used as a:
- Smooth electrostatically conductive floor covering

The Product is used for the following application areas:
- Automotive facilities
- Electronic facilities and data centres
- Pharmaceutical facilities
- Storage areas
- Warehouses

The Product is suitable for areas with sensitive electronic equipment such as:
- CNC machinery
- Computer rooms
- Aircraft hangars
- Battery-charging rooms
- Areas with a high explosion risk

CHARACTERISTICS / ADVANTAGES

- Electrostatically conductive
- Good resistance to chemicals
- Good mechanical resistance
- Easy to clean and maintain
- Economical
- Impermeable to liquids
- Semi-gloss finish

ENVIRONMENTAL INFORMATION

- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)
- Conforms with LEED v4 EQ credit: Low-emitting materials
- Conforms with LEED v4 MR credit: Building product disclosure and optimization — Environmental Product Declarations (option 1)

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Synthetic resin screed material
- CE marking and declaration of performance based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating
- Fire testing EN 13501-1, Sikafloor®-262 AS N, MPA, Report No. 2007-B-0181/17
- Coating Compatibility AA-P 128, Sikafloor®, Polymer Institut, Report No. P 5541
- Material testing PV 3.10.7, Sikafloor®-262 AS N, HQM, Report No. 14-04-14201871-
- Particle Test ISO 14644-1, Sikafloor®-262 AS N, CSM Fraunhofer, Certificate No.
- Outgassing emissions VDI 2083-17, Sikafloor®-262 AS N, CSM Fraunhofer, Certifica
- Biological Resistance ISO 846, Sikafloor®-262 AS N, No. SI 1412-740

PRODUCT INFORMATION

Chemical Base	Epoxy
Packaging	Container Part A: 21 kg Container Part B: 4 kg Container Part A + Part B: 25 kg Refer to the current price list for available packaging variations.
Shelf Life	12 months from date of production
Storage Conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.
Appearance / Colour	IMPORTANT **Ensuring consistent colour matching** For consistent colour matching, make sure the Product in each area is applied from the same control batch numbers. Part A: coloured liquid Part B: transparent liquid Available in a wide range of colours. Please contact Sika customer service for availability. **Exact colour matching** Note: Due to the nature of carbon fibres providing the conductivity, it is not possible to achieve exact colour matching. With very bright colours (such as yellow and orange), this effect is increased. Note: When the Product is exposed to direct sunlight, there may be some discolouration and colour variation. This has no influence on the function and performance of the Product.

Density (EN ISO 2811-1)

Resin	Density at +23°C
Part A	1.69 kg/L
Part B	1.03 kg/L
Mixed resin unfilled	1.53 kg/L
Mixed resin filled 1 : 0.3	1.69 kg/L

Solid content by weight	~97 %
Solid content by volume	~97 %

TECHNICAL INFORMATION

Shore D Hardness	Cured 3 days at +23 °C	~77	(EN ISO 868)
Abrasion Resistance	~100 mg, resin filled 1 : 0.3 with F34 sand (CS10 /1000 g /1000 cycles) (after 7 days at +23°C)		(EN ISO 5470-1)
Compressive Strength	Cured 28 days at +23 °C (filled 1:0.3 with F34 sand)	~80 MPa	(EN ISO 604)
Flexural Strength	Cured 28 days at +23 °C (filled 1:0.3 with F34 sand)	~40 MPa	(EN ISO 178)
Tensile Adhesion Strength	> 1.5 MPa (failure in concrete)		(EN 1542)

Electrostatic Behaviour

Resistance to ground	$R_g < 10^9\ \Omega$	(IEC 61340-4-1)
Typical average resistance to ground	$R_g < 10^6\ \Omega$	(EN 1081)

This product fulfils the requirements of ATEX 153.
Readings may vary, depending on ambient conditions (i.e. temperature, humidity) and measurement equipment.

Thermal Resistance

IMPORTANT
No simultaneous mechanical and chemical strain
While the product is exposed to temperatures up to +60 °C, do not also subject it to chemical and/or mechanical strain, as it may cause damage to the product.

Exposure	Dry heat
Short-term max. 7 days	+60 °C

Chemical Resistance

Laboratory defined resistance to many individual chemicals. Before proceeding, contact Sika Technical Services for specific information.

APPLICATION INFORMATION

Mixing Ratio

Part A : Part B (by weight)	84 : 16 (by weight)

Consumption

Coating system	Product	Consumption
Self-smoothing wearing course (Film thickness ~ 1.5 mm)	Sikafloor®-262 AS N filled with Sikafloor® Aggregate 508	Maximum 2.5 kg/m² Binder + Sikafloor® Aggregate 508 Depending on the temperature the filling grade varies from: 1 : 0.1 pbw (2.3 + 0.2 kg/m²) to 1 : 0.2 pbw (2.1 + 0.4 kg/m²)

Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.
Excessive layer thickness
Note: Applying the Product in excess of the stated thickness causes reduced conductivity.

Product Temperature

Maximum	+30 °C
Minimum	+10 °C

Ambient Air Temperature

Maximum	+30 °C
Minimum	+10 °C

Relative Air Humidity

80 % r.h. max

Dew Point

Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.

Substrate Temperature

Maximum	+30 °C
Minimum	+10 °C

Substrate Moisture Content

≤ 4% pbw using Sikafloor®-150.
Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.
No rising moisture according to ASTM (Polyethylene-sheet).
Osmosis caused by rising moisture or incorrect primer application is not covered by the product warranty.
Substrates above 4% but less than 6% pbw maybe primed using Sikafloor®-151,
Please note Sikafloor-151 offers no protection against rising moisture.
IMPORTANT
Temporary moisture barrier
If the substrate moisture content measured above the figures listed above, apply a temporary moisture barrier consisting of Sikafloor® EpoCem®.
1. Contact Sika technical services for more information.

Pot Life

Temperature	Time
+30 °C	~15 minutes
+20 °C	~25 minutes
+10 °C	~40 minutes

Applied Product Ready for Use

Temperature	Foot traffic	Light traffic	Full cure
+30 °C	~16 hours	~2 days	~5 days
+20 °C	~24 hours	~3 days	~7 days
+10 °C	~30 hours	~5 days	~10 days

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

BASIS OF PRODUCT DATA

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.

FURTHER DOCUMENTS

- Sika® Method Statement: Evaluation and preparation of surfaces for flooring systems
- Sika® Method Statement: Mixing and application of flooring systems

LIMITATIONS

- Other quartz sand type will have an effect on the product, such as filling grade, levelling properties and aesthetics. Generally, the lower the temperature the less the filling grade.
- Before the application of a conductive flooring system apply a reference area. This reference area must be assessed and accepted from the contractor / client.

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

Select the most appropriate equipment required for the project:
MIXING
- Electric single paddle mixer (300-400 rpm)
- Electric double paddle mixer (> 700 W, 300-400 rpm)
- Scraper
- Clean mixing containers

APPLICATION
- Mixed material carrier
- Notched trowel or pin rake
- Steel spike rollers

SUBSTRATE QUALITY

IMPORTANT
Incorrect treatment of cracks
The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
TREATMENT OF JOINTS AND CRACKS
Construction joints and existing static surface cracks in substrate require pre-treating before full layer application. Use Sikadur® or Sikafloor® resins.
SUBSTRATE CONDITION
Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 MPa) with a minimum tensile strength of 1.5 MPa.
Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

MIXING

1. Mix Part A (resin) for ~10 seconds with a single paddle mixer (300–400 rpm).
2. Add Part B (hardener) to Part A. Switch to an electric double paddle mixer (300–400 rpm, > 700 W).
3. While mixing Parts A + B, gradually add the required filler or aggregates.Note: Avoid over mixing to minimise air entrainment.
4. Mix for a further 2 minutes until a uniform mix is achieved.
5. To ensure thorough mixing pour materials into a clean container and mix again for at least 1 minute to achieve a smooth consistent mix.
6. During the final mixing stage, scrape down the sides and bottom of the mixing container with a straight edge trowel or spatula.

APPLICATION

IMPORTANT
Temporary heating
If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO_2 and H_2O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.
IMPORTANT
Performing pre-trials
Pre-trials/mock-up applications must be performed and procedures agreed with all parties before full project application.
IMPORTANT
Indentations
Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading may lead to indentations in the resin.
IMPORTANT
Protect from moisture
After application, protect the Product from damp, condensation and direct water contact for at least 24 hours.
Preconditions
IMPORTANT Do not blind the primer.The conductive priming coat has been applied and has dried tack-free all over.
1. Pour the mixed Product onto the surface. Note: The consumption is specified in Application Information.
2. Apply the Product evenly over the surface with a serrated trowel.
3. Turn the serrated trowel and smooth the surface for an aesthetically higher grade of finish.
4. IMPORTANT This process must happen within 10 minutes of application. Back roll the surface in two directions at right angles with a spike roller.

IMPORTANT
Temporary moisture barrier
≤ 4% pbw using Sikafloor®-150
Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method.
No rising moisture according to ASTM (Polyethylene-sheet).
Osmosis caused by rising moisture or incorrect primer application is not
covered by the product warranty.
Substrates above 4% but less than 6% pbw maybe primed using Sikafloor®-151,
Please note Sikafloor-151 offers no protection against rising moisture
.
IMPORTANT
Temporary moisture barrier
If the substrate moisture content measured above the figures listed above, apply a temporary moisture barrier consisting of Sikafloor® EpoCem®. 1. Contact Sika technical services for more information.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened material can only be removed mechanically.

MAINTENANCE

To maintain the appearance of the floor after application, the Product must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc. using suitable detergents and waxes. Refer to Sika Method Statement: Sikafloor®-Cleaning Regime.

LOCAL RESTRICTIONS

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

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

Sika (NZ) Limited
85-91 Patiki Road
Avondale, Auckland 1026
New Zealand
0800 745 269
www.sika.co.nz