BASEBEN BUILD-UP WET ROOM

USER MANUAL + TECHNICAL DATASHEET

PRODUCT DESCRIPTION

Basebeton is a ready-to-use concrete plaster with micronized quartz for application on floors and walls in both dry and wet areas. These instructions have been specially developed for the application of Basebeton in the wet cell of a bathroom.

USE

- To renovate existing floors or as a replacement for current floor covering.
- Can be applied to both floors and walls due to strong adhesion
- Available in 64 standard colours, but can also be supplied in almost any RAL or NCS colour
- Exclusively suitable for indoor use

WAYS OF USE

Basebeton can be used for:

- finishing walls, floors, furniture and worktops
- Moisture rooms (in combination with the system construction of Ardex)

METHOD OF APPLYING BASE CONCRETE IN COMBINATION WITH THE ARDEX SYSTEM CONSTRUCTION IN THE WET ROOM

BASEBETON WALL FINISH

Basebeton is applied in two different layers. Always use Basebeton Basa as the first layer of Basebeton, always use Basebeton Sense as the second layer. Before applying the first layer of Basebeton, the surface must be smooth, clean and free from unevenness.

PREPARATION

Walls must be flat and smooth before Basebeton is applied. In preparation for the application of base concrete, Ardex A950 is recommended to level walls.

Ardex A950
Mixing ratio: Approx. 7.75 l water : 25 kg Ardex A950
Material consumption: approx. 1.1 kg/m² and mm
Processing time (+20 oC): approx. 30-40 minutes

Please see the Ardex A950 Technical Data Sheet for further processing instructions and product specifications.

Ardex A950 can be recoated after approx. 2 to 3 hours. The substrate must be sealed after the Ardex A950. For this it is recommended to use Ardex 8+9 in combination with Ardex SK12 Tricom Sealing Tape / Ardex SK Tricom Sealing Set. Ardex 8+9 is used for sealing walls and floors in sanitary areas. Ardex SK 12 Tricom Sealing Tape / Ardex SK Tricom Sealing Set is a sealing tape for the flexible and watertight bridging of movement joints, edge joints and crack-sensitive connections (in system with Ardex 8+9 sealing product).

Ardex 8+9
Mixing ratio:
Rollable consistency: 20 kg Ardex 8 Acrylate Dispersion + 20 kg Ardex 9 Reaction Powder
Spreadable consistency: 14 kg Ardex 8 Acrylic Dispersion + 20 kg Ardex 9 Reaction Powder
Material consumption:
Rollable consistency (2 layers): approx. 0.4 kg powder + approx. 0.4 kg dispersion = approx. 0.8 kg mixed material per m²
Spreadable consistency (layer thickness of 2 mm) approx. 1.6 kg powder + approx. 1.2 kg dispersion = approx. 2.8 kg mixed material per m²
Processing time (+20 oC): approx. 45 minutes

Please refer to the Ardex 8+9 and Ardex SK 12 Tricom Sealing Products Technical Data Sheet for further processing instructions and product specifications.

24 hours after the application of Ardex 8+9 / Ardex SK 12 Tricom Sealants, the assembly of the Basebeton system can be started.

Walls must always be treated with Basebeton Primer.
We recommend MCG Primer as a primer for use on absorbent surfaces. For non-absorbent substrates MCG can be used undiluted. For absorbent surfaces, it can be diluted 1:1 with water. MCG can be applied evenly with a foam roller.

For additional adhesion, Ecohecht can be used instead of MCG. Ecohecht has been specially developed for the preparation, maintenance, sealing and optimisation of the density and adhesion of both absorbent and non-absorbent substrates and contains a quartz grain. On absorbent substrates Ecohecht can be diluted with water up to 15%. Ecohecht can be evenly applied with a short- or long-pole roller.

APPLICATION BASA+SENSE
When the primer is dry, a start can be made with applying the first layer of Basebeton; the basa. The basa can be applied with a stainless steel plaster knife. Spread the first layer as evenly as possible over the entire surface, approximately on grain thickness (0.5 - 1 mm). The first layer determines the final Basebeton look.

After the first layer has dried sufficiently (hand-dry, after +/- one part of the day), the second and final layer of Basebeton can be applied; the sense. When applying this second layer make sure that - for optimal effect - the same plasterer's knife is used as when applying the first layer of Basebeton basa. With the layer of sense you make sure that the surface is completely 'closed'. The layer of sense should be scraped over the basa as thinly as possible (0.1-0.5 mm).

FINISHING
As soon as the second layer is dry (after 24 hours), the Basebeton must be sanded with an eccentric sander. For this sanding process we recommend using sandpaper with a grain size of 80 or 120. The degree of sanding has a direct influence on the final result. As soon as the sanding has been completed, the sanded surface should be dusted. This can be done with a soft brush or industrial hoover with a soft brush head.

For the desired end result, the Basebeton wall is finished with the special Basebeton 2K-PU coating: the SA Basic-coat WB 2K-PU. This coating consists of two components: SA Basic-coat WB 2K-PU Comp A and SA Basic-coat WB 2K-PU Comp B. The coating can only be used when component A is mixed with component B. Add component B to component A. Mix this thoroughly and pour the mixture through the MP 190 micron sieve.

Then mix the mixture again thoroughly. Then the coating can be applied by means of a nylon roller.

Please note that - depending on customer requirements, temperature, humidity, working practice and/or local habits - the properties of the product in terms of drying, hardness, workability and grain size may vary.

!! Attention: Once the base concrete has been applied to the wall, the wall should never be covered with tape afterwards (i.e. even when the wall is already in use) due to the composition of the Stone Age product. This will prevent any disturbing prints, which could cause damage to the wall. Stone Age accepts no liability whatsoever for damage occurring if the wall in question is covered with tape contrary to this instruction.

BASEBETON FLOOR FINISH

Basebeton floor finishes in the wet room must always be used in combination with Ardex products for a watertight result.

PREPARATION
Before starting to apply the base concrete, the subfloor must be constructed according to the Ardex system. For this purpose, the slope of the floor must be made with Ardex A 38 (MIX). Ardex A 38 is a quick-mix mortar for the creation of a quickly usable and coverable cement screed.

Please refer to the Ardex A 38 Technical Data Sheet for further processing instructions and product specifications.

The Easydrain type TAF is recommended for use with the type of drain. This should already be incorporated in the Ardex A 38.

Once the Ardex A 38 has hardened sufficiently, the substrate must be treated with Ardex EP 2000. This treatment ensures that the substrate is sealed against rising damp, strengthens the substrate and serves as a bonding agent. When Ardex EP 2000 is applied, it must be thoroughly sprinkled with Ardex QS Quartz sand.

Please refer to the Technical Data Sheet for Ardex EP 2000 and Ardex QS Quartz Sand for further processing instructions and product specifications.

The substrate must be sealed after the application of Ardex EP 2000 + Ardex QS Quartz sand. For this, the use of Ardex 8+9 in conjunction with Ardex SK12 Tricom Sealing Tape / Ardex SK Tricom Sealing Set is recommended. Ardex 8+9 is used for sealing walls and floors in sanitary areas. Ardex SK 12 Tricom Sealing Tape / Ardex SK Tricom Sealing Set is a sealing tape for the flexible and watertight bridging of movement joints, edge joints and crack-sensitive connections (in system with Ardex 8+9 sealing product).

Please refer to the Ardex 8+9 and Ardex SK 12 Tricom Sealing Products Technical Data Sheet for further processing instructions and product specifications.

Once the build-up according to the Ardex system has been completed, the build-up of Basebeton can begin.

Before the Basebeton can be applied, the floor must first be treated with MCG Primer. MCG can be applied evenly with a coat or foam roller. The MCG has a drying time of +/- 2 hours (hand dry). When the MCG is hand-dry, the Basebeton basa can be applied.

APPLICATION OF BASEBETON BASA + SENSE
When the eco adhesive is dry, you can start applying the first layer of Basebeton; the basa. The basa can be applied with a stainless steel plasterer's knife. Spread the first layer as evenly as possible over the entire surface, approximately on grain thickness (0.5 - 1 mm). The first layer determines the final Basebeton look.

After the first layer has dried sufficiently (hand-dry, after +/- one part of the day), the second and final layer of Basebeton can be applied; the sense. When applying this second layer, make sure that - for optimal effect - the same plasterer's knife is used as when applying the first layer of Basebeton. The sense layer ensures that the surface is completely 'closed'. The layer of sense should be scraped over the basa as thinly as possible (0.1 - 0.5 mm). Protective shoe covers are recommended to prevent disturbing footprints during application of the Basebeton.

FINISHING
As soon as the second layer is dry, the Basebeton must be sanded with an eccentric sander. For this sanding process we recommend using sandpaper with a grain size of 80 or 120. The degree of sanding has a direct influence on the final result. As soon as the sanding has been completed, the sanded surface should be dusted. This can be done with an industrial hoover.

To achieve the desired end result, the Basebeton floor is finished twice with the special Basebeton 2K-PU coating: the SA Basic-coat WB 2K-PU. This coating consists of two components: SA Basic-coat WB 2K-PU Comp A and SA Basic-coat WB 2K-PU Comp B. The coating can only be used when component A is mixed with component B. Add component B to component A. Mix this thoroughly and pour the mixture through the MP 190 micron sieve. Then mix the mixture again thoroughly. Then the coating can be applied by means of a nylon roller, rolling it up crosswise in all directions. After one hour the second layer of coating can be applied. ATTENTION: the use of oven shoes is necessary. The floor has to dry for at least five days before it can be walked on.

Please note that - depending on customer requirements, temperature, humidity, working practices and/or local habits - the properties of the product in terms of drying, hardness, workability and grain size may vary.

!! Attention: Once the base concrete has been applied to the floor, the floor should never be covered with tape afterwards (i.e. even when the floor is already in use), due to the composition of the Stone Age product. This will prevent any disturbing prints, which could cause damage to the floor. Stone Age accepts no liability whatsoever for damage occurring if the floor concerned is covered with tape against this instruction.

Application conditions

- Required room temperature of 18 – 25 °C
- Required material and surface temperature of 12 – 18 °C
- Relative humidity: 40 – 70 %

Consumption

Basebeton Primer	: +/- 50-100 gram per m²
Basebeton Basa	: +/- 700 gram per m²
Basebeton Sense	: +/- 300 gram per m²
Basebeton Coating	: +/- 100 gram per m²

Presentation

- BaseBeton Basa : container of 7 kilograms, ready to use
- BaseBeton Sense : container of 3 kilograms, ready to use

Conservation

Up to 12 months after the production date, unless stored in the original and closed container and not being exposed to the elements and/or humidity.

Sustainability

BaseBeton is manufactured in a conscientious manner to minimize CO_2 emissions, protect natural resources and to reduce both waste as potential environmental and health risks.

Specifications

Type / Appearance	: Paste
Apparent density, Basa paste	: Pre application 1.400 kg / m³, Hardened 2.000 kg / m³
Apparent density, Sense paste	: Pre application 1.300 kg / m³, Hardened 1.800 kg / m³
Maximum lifespan of the BaseBeton mixture	: 7 hours
Maximum aggregate size	: 0,1 mm

Resistance specifications (EN 1015-11):

- Compression after 28 days	: Basa 30 N/mm² – Sense 30 N/mm² > 35 N / m²
- Flexion after 28 days	: Basa >12 N/mm² – Sense >10 N/mm²
- Concrete adhesion after 28 days	: Basa en Sense 1,6 N/mm²
- Maximum applicable thickness, Basa paste	: 0,2 to 0,5 mm per layer
- Maximum applicable thickness, Sense paste	: 0,1 to 0,5 mm per layer
- Reaction to fire testing (EN 13501-1)	: A1

Maintenance

We recommend the use of our BaseBeton Protector in order to properly clean and preserve your BaseBeton. By using BaseBeton Protector on a regular basis, the typical BaseBeton look can be maintained. When BaseBeton is applied on your floor, we advise you to accommodate your furniture with a soft protection such as provided by Scratch no More (www.scratchnomore.nl).

Special precautions

This product contains cement. Avoid contact with eyes and skin, as well as inhalation of dust. Use rubber gloves and protective goggles. Keep out of the reach of children. Do not apply BaseBeton products at a room temperature below 5ºC or above 30ºC. Empty containers must be disposed of in compliance with local legal regulations.

Additional health and safety information

For information and advice on how to safely handle, store and dispose of chemical products, users should refer to the most recent material safety data sheet containing physical, ecological, toxicological and other safety related data.

Disclaimer

This information, and in particular the recommendations related to the application and end use of Stone Age products, is provided in good faith based on our current knowledge and experience of the products. It is valid for products that are correctly stored, treated and applied under normal conditions in accordance with Stone Age recommendations.

In practice, differences in materials, substrates and actual on-site conditions are such that no warranty in respect of merchantability or of suitability for a 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 another advice offered.

The user of the products must test the products' suitability for the intended application and purpose. Stone Age 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 technical data sheet for the product concerned, copies of which will be supplied on request.

CE labelling

The harmonized European standard EN 13 813 ,, Screed material and floor screeds – screeds – material properties and requirements'' specifies requirements for screeds for use with floor constructions. Structural screeds or coatings, for example those contributing to the load bearing capacity of the construction, are excluded from this standard. Both synthetic resin floors and cement-bonded screeds are covered by these specifications. They must be CE-labelled according to Annex ZA. 3, Table ZA. 1.5 and 3.3 and comply with the requirements of the Construction Products Directive (89/106):

CE	
Stone Age B.V. Butaanstraat 10 7463 PG RIJSSEN The Netherlands	
13[1]	
EN 13 813 SR-B1.5	
Primers/sealers	
Reaction to fire:	A1
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	WP
Abrasion resistance:	NPD
Adhesive strength:	B1.5
Impact resistance:	NPD
Noise insulation:	NPD
Noise absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

[1] The last two figures of the year in which the mark was awarded.

[2] NPD = No Performance Determined.

[3] WP = Water Proof (het materiaal is waterdicht en neemt geen water op)