

PRODUCT

Description:	Tierrafino Base is a clay plaster that serves as a render, skim coat and finish for walls and ceilings in the interior.
Composition:	Sands, clays and possibly straw.
Packaging:	25 kg bag, 1000 kg Big Bag, 1200 kg Big Bag and silo's up to 15.000 kg.
Consumption:	5 mm – 8,5 kg/m ² . 10 mm – 17 kg/m ² . 15 mm – 25 kg/m ² .
Storage advice:	Store dry.
Workability:	Dry Base can be kept indefinitely.
Colors:	Available in 4 colors: Base SII with and without straw, moist and dry. Base Ochre with straw, moist and dry. Base White with and without straw, moist. Base Red with straw, moist.

Due to the character of natural earth pigments used, slight variations in color may appear between batches of the same color.

AREA OF APPLICATION

A render, skim coat and finish for sufficiently load bearing walls in the interior. Only applicable in the exterior where protected from direct contact with water. Suitable for humid rooms, do not apply where there is a chance of direct contact with water.

Suitable for plastering at a thickness of 5-15 mm per coat of load bearing, uneven, rough, flat and prepared substrates like brickwork, reed mats, base clay-, gypsum- and lime plasters, concrete and dry wall systems.

WHICH TYPE OF BASE IS SUITABLE FOR WHICH PURPOSE?

Type Base	As a decorative finish	As a substrate for Finish/Duro/Stone	As a substrate for I-Paint/T-Paint & Listro
Base SII without straw, universal, moist	x	x*	x**
Base SII with straw, base coat, moist	x	x*	-
Base SII without straw, base coat fine, dry	x	-	x**
Base SII with straw, base coat, dry	x	x*	-
Base SI White without straw, moist	x	-	-
Base SI White with straw, moist	x	-	-
Base SI Ochre with straw, moist	x	-	-
Base Rood with straw, moist	x	-	-

* Only suitable for dry areas when used as a substrate for Stone.

** Both types can be used as a substrate for thin finishes, however we advise to use S II Light brown without straw (dry) if the surface needs to be very smooth and completely closed.

PROPERTIES

- Indefinite workability
- DIY/Professional
- Apply with hand tools or spray machine
- Hardness comparable to lime plaster
- Easy to repair
- Water vapour permeable
- Humidity- and temperature regulating
- Anti-static
- Shortens reverberation
- Colorfast
- Waste can be reused or disposed of in the garden

APPLICATION

- Circumstances:** The air- and substrate temperature must be at least 5°C.
- Substrate:** Load bearing, continuously dry, absorbing, sufficiently rough to provide a mechanical key, free of dust and grease. Remove wallpaper and flaking paint. Prepare non-absorbing substrates with a tile glue or a suitable sprayed cement. Pre-moisten highly absorbing substrates with water before application of Base in order to prolong the workability and to enhance adhesion. Treat smooth substrates with Tierrafino Contact. Do not pre-moisten substrates treated with Tierrafino Contact before application of Base.
- Mixing:** Add 3,5 – 4 kg Base to 1 liter water and mix until a smooth paste is achieved.
- Application:** General: Work reinforcement mesh into Base on seams and on transitions between different substrates before applying Tierrafino Contact/mechanical key and Base. When in doubt, also work a 10 mm mazed reinforcement mesh into the whole surface. When working with plaster profiles, use stainless steel profiles due to the slow drying of Base. When a smooth plastered surface is required, apply Base max. 7 mm thick.
- Several coats of Base:* Choose the appropriate type of Base in the Chart above. Apply the first coat of 10-15 mm, make straight with a feather edge. Roughen with a tile adhesive comb in horizontal direction. After drying out completely, slightly moisten and repeat. Do not apply more than 7 mm when finishing smooth.
- Base as a substrate for Finish/Duro:* Choose the appropriate type of Base in the Chart above. Apply the first coat of 15-15 mm, make straight with a feather edge and/or sponge. After drying out completely, slightly moisten before applying Finish/Duro.
- Base as a substrate for clay paint:* Choose the appropriate type of Base in the Chart above. Follow the instructions for application and finishing as described below in Coarse finish or Smooth finish.
- Base as a substrate for Listro:* Choose the appropriate type of Base in the Chart above. Follow the instructions for application and finishing as described below in Smooth finish.

Base as a decorative finish: Coarse finish: Choose the appropriate type of Base in the Chart above. After some stiffening (depending on circumstances between 10 minutes and 4 hours), float the surface with a sponge. This will determine the shape en it will close the surface. Follow the instructions as described in Finishing.

Smooth finish: Apply max. 7 mm Base. Choose the appropriate type of Base in the chart above. After some stiffening (depending on circumstances between 10 minutes and 4 hours), float the surface with a sponge. Now smoothen the surface with a trowel, this will press the sand into the plaster and create a smooth surface. Follow the instructions as described in Finishing.

Finishing:

When Base is still humid the surface is carefully wiped down with a damp sponge. This will make individual sand particles visable in the surface. Then vigorously wipe the surface with a hand held coconut- or horse hair brush. This will create a wipe proof surface. Repeat when necessary. If the surface shows dry areas, moisten these before finishing.

Drying time:

Under normal circumstances (+20°C and 60% relative air humidity), Base is dry between 4 hours and 7 days. Hardly drying circumstances: dry Base rapidly by using a heater. Place the heater at least 2 meters from the wall. Base with straw, once mixed with water, must be dry within 7 days.

Thinner:

Water.

Safety advice:

Avoid contact with eyes and mucous membranes. With induced risk (ceilings) wear safety goggles. For further Base Material Safety Data Sheet.

EXTRA'S

Mix with Tierrafino Effects like mother of pearl, straw and other sands for special effects.

Mix with Tierrafino Pigment, add Tierrafino Fix to create a wipe proof finish.

Create veiled techniques by applying a mix of Fix, water and Pigment to the moist surface of Base with a sponge. Finish as written above.

Create veiled techniques by applying wet Finish and/or Duro to the moist surface of Base with a sponge. Finish as written above.

TOOLS

Plasterer's tub, mixer, water spray, hawk, laying on trowel, feather edge, sponge, plastic trowel, hand held brush, masking tape, suitable plaster spray machines: G4, G5, MP25, S28, P13, S5 & S30.

ASSISTING PRODUCTS

Tierrafino Contact primer, -Fix, -Wax, -Effects.

TECHNICAL DATA

	Base SII without straw, universal, moist	Base SII with straw, base coat, moist	Base SII without straw, base coat fine, dry	Base SII with straw, base coat, dry
Classification DIN	LPM 0/2m-SII-2,0	LPM 0/2f-SII-2,0	LPM 0/0,5m-SII-2,0	LPM 0/0,5f-SII-2,0
Clay plaster type according to DIN	Lehm-Werkmörtel	Lehm-Werkmörtel	Lehm-Werkmörtel	Lehm-Werkmörtel
Particle size*	2 mm* **	2 mm* **	0,5 mm*	0,5 mm*
Fibre	None	Straw	None	Straw
Min. – Max. application thickness	5-20 mm ***	5-20 mm ***	5-12 mm ***	5-15 mm ***
Shrinking coefficient (< 2,0 %)	2,00%	2,60%	1,90%	2,5%
Strength class	S II	S II	S II	S II
Pressure strength ($\geq 1,5$)	2,2 N/mm ²	2,7 N/mm ²	1,8 N/mm ²	2,5 N/mm ²
Bending strength ($\geq 0,7$)	0,9 N/mm ²	1,0 N/mm ²	0,7 N/mm ²	1,0 N/mm ²
Adhesion strength ($\geq 0,10$)	0,17 N/mm ²	0,15 N/mm ²	0,21 N/mm ²	0,20 N/mm ²
Thermal conductivity	1,01 W/(m*k)	1,01 W/(m*k)	1,01 W/(m*k)	0,91 W/(m*k)
Damp-diffusion resistance	5/10	5/10	5/10	5/10
Dry mass	1,87 kg/dm ³	1,88 kg/dm ³	1,9 kg/dm ³	1,82 kg/dm ³
Construction class	A1	B1	A1	A1
Scratch resistance ($\leq 0,7$ = Class S II)	0,5 g	Not tested	0,6 g	Not tested

	Base SI White without straw, moist	Base SI White with straw, moist	Base SI Ochre with straw, moist	Red with straw, moist
Classification DIN	LPM 0/2m-SI-2,0	LPM 0/2f-SI-2,0	LPM 0/8f-SI-1,8	Not tested
Clay plaster type according to DIN	Lehm-Werkmörtel	Lehm-Werkmörtel	Lehm-Werkmörtel	Not tested
Particle size*	2 mm* **	2 mm* **	8 mm* **	8 mm*
Fibre	None	Straw	Straw	Straw
Min. – Max. application thickness	5-20 mm ***	5-20 mm ***	5-25 mm ***	5-15 mm ***
Shrinking coefficient (< 2,0 %)	2,20%	2,20%	2,00%	Not tested
Strength class	SI	SI	SI	Not tested
Pressure strength ($\geq 1,5$)	1,6 N/mm ²	1,6 N/mm ²	1,5 N/mm ²	Not tested
Bending strength ($\geq 0,7$)	0,6 N/mm ²	0,6 N/mm ²	0,6 N/mm ²	Not tested
Adhesion strength ($\geq 0,10$)	0,15 N/mm ²	0,15 N/mm ²	Not tested	Not tested
Thermal conductivity	1,01 W/(m*k)	1,01 W/(m*k)	0,82 W/(m*k)	Not tested
Damp-diffusion resistance	5/10	5/10	5/10	Not tested
Dry mass	1,87 kg/dm ³	1,87 kg/dm ³	1,71 kg/dm ³	Not tested
Construction class	A1	A1	A	Not tested
Scratch resistance ($\leq 0,7$ = Class S II)	1,3 g	1,3 g	Not tested	Not tested

*This is the sieve analysis. The product will contain sand that is longer than the indicated size which will fall through the sieve.

**Since moist raw materials can not be sieved finer than 6 mm, it is possible that this product contains sands larger than the values as indicated. 98% of the sand in this product is not larger than the indicated values as written above.

***When a smooth plastered surface is desired, apply Base max. 7 mm thick.

SUBSTRATES - WALLS

SUBSTRATE	PREPARATION 1	VOORBEHANDELING 2	MAXIMUM THICKNESS BASE*
WALLS			
Uneven concrete	Apply a suitable rough grated cement/tile glue		15 mm per coat, max. thickness depending on construction
Even concrete	Apply a suitable rough grated cement/tile glue		15 mm per coat, max. thickness depending on construction
Sheetrock/Fermacell	Clean, apply joint tape on- and a suitable filler in joints	Apply a penetrating, fixating primer, then Tierrafino Contact	7 mm
Fresh gypsum-, lime- and lime-cementplaster	Let each 1 mm dry for 1,5 days	Apply Tierrafino Contact primer	10 mm per coat, max. thickness depending on construction
Smooth bricks	Apply Tierrafino Contact primer		15 mm per coat, max. thickness depending on construction
Coarse bricks	Remove dust		15 mm per coat, max. thickness depending on construction
Adobe - clay bricks	Remove dust		15 mm per coat, max. thickness depending on construction
Clay boards on battens at 31,25 cm centres	Cover joints between boards with a 10 cm self adhesive joint tape		15 mm per coat, 30 mm
Reed rolls on battens at 30 cm centres	Apply 15 mm Base (reed may remain partly visible)	After drying, apply 10-15 mm Base without pushing	15 mm per coat, 30 mm
Metal reinforcement on battens at 7,5 cm centres	Apply 15 mm Base (mesh may remain partly visible)	After drying, apply 10-15 mm Base without pushing	15 mm per coat, 30 mm
Wall heating systems	Apply 15 mm Base (heating may remain partly visible)	After drying, apply 10-15 mm Base with full surface mesh	15 mm per coat, max. thickness depending on construction
Wattle and daub	Remove dust		15 mm per coat, max. thickness depending on construction
Rough, dry and old plasters without glue	Remove and remove dust/apply fixative	Apply Tierrafino Contact primer	15 mm per coat, max. thickness depending on construction
Flaking plaster	Remove and remove dust	Apply Tierrafino Contact primer	15 mm per coat, max. thickness depending on construction
Paint	Apply a penetrating, fixating primer	Apply Contact roughly or a rough grated tile glue	7 mm
Other materials	Remove/fixate	Apply Contact roughly or a rough grated tile glue	7 mm

* This shows the maximum thickness of the total build up on various substrates. The maximum thickness that can be applied per coat varies with each type of Base. Consult the chart in the chapter TECHNICAL DATA.

SUBSTRATES - CEILINGS

SUBSTRATE	PREPARATION 1	VOORBEHANDELING 2	MAXIMUM THICKNESS BASE*
CEILINGS			
Uneven concrete ceiling	Space battens at 7,5 cm centres	Apply reed or a metal reinforcement mesh	25 mm incl. reed (see reed rolls/metal mesh on battens at 7,5 cm centres)
Even concrete ceiling	Apply a suitable rough grated cement/tile glue		7 mm
Sheetrock/Fermacell	Clean, apply joint tape on- and a suitable filler in joints	Apply a penetrating, fixating primer, then Tierrafino Contact	7 mm
Fresh gypsum-, lime- and lime-cementplaster	Let each 1 mm dry for 1,5 days	Apply Tierrafino Contact primer	7 mm
Clayboards on battens at 7,5 cm centres	Cover joints between boards with a 10 cm self adhesive joint tape		10 mm
Reed rolls on battens at 7,5 cm centres	Apply 15 mm Base (reed may remain partly visible)	After drying, apply 10 mm Base without pushing	25 mm incl. thickness of reed
Metal reinforcement mesh on battens at 7,5 cm centres	Apply 15 mm Base (mesh may remain partly visible)	After drying, apply 10 mm Base without pushing	25 mm incl. thickness of mesh
Rough, dry and old plaster without glue	Remove and remove dust/apply fixative	Apply Tierrafino Contact primer	7 mm
Flaking plaster	Remove flaking plaster and dust	Apply Tierrafino Contact primer	7 mm
Paint	Apply a penetrating, fixating primer	Apply a rough grated tile glue	7 mm
Other materials	Remove/fixate	Apply Contact roughly or a rough grated tile glue	7 mm

* This shows the maximum thickness of the total build up on various substrates. The maximum thickness that can be applied per coat varies with each type Base. Consult the chart in the chapter TECHNICAL DATA.

DISCLAIMER

Although this product description has been put together with utmost precision, Tierrafino will not be liable for any indirect or direct damage that may occur, by using the information offered in this product description.