2021

Construction Chemicals Catalog

SIMENTEK®
CONSTRUCTION CHEMICALS

The best product.
The best solution.
The best application.

From tile adhesive to waterproofing solutions, decorative external plastering to improved gypsum plastering products, and industrial floor solutions to concrete additives... "The best is always" avaible at SIMENTEK."

SIMENTEK CHEMICALS MANUFACTURING PLC

Simentek Chemicals Manufacturing PLC is a construction chemicals company established in Addis Ababa, Ethiopia by Turkish and American nationals, out of frustration to find world standard construction materials at local market at good quality and affordable prices.

General Manager of Simentek, Mike Koksal Cengiz is a Turkish American investor who has vast experience in developing and renovating buildings in the United States for over 15 years.

In the year 2015, he decides to invest in real estate market in Ethiopia, which is one of the fastest growing countries in the word with the second largest population in Africa. He becomes the shareholder of Metropolitan Real Estate and is involved in developing one of the luxury apartments in Addis Ababa.

During the development of the building, he realizes that the construction materials available in the country are either imported and very highly priced and sometimes not available when needed, or locally manufactured and most of the time does not meet the quality requirements of a modern building.

Out of this frustration, SIMENTEK Chemicals Manufacturing PLC is born to manufacture world standard construction chemicals in Ethiopia to provide affordable and quality materials and provide better options to the construction industry.

SIMENTEK brings a vast experience its owners and technical staff has gained throughout years in building luxury apartments, villas in Turkey, United States and Ethiopia, and manufacturing construction chemicals in Turkey, Russia, Uzbekistan, Iran, Zambia to Ethiopia.

Our materials are time tested by millions of construction industry experts over the years.

Our experts are now producing world standard materials including but not limited to tile adhesives for different tile installation needs from small size tiles to large tiles, marble and granite installation, high quality water and abrasive resistant tile joint fillers, multiple types of waterproofing, repair mortars and wall putty, mineral plaster for exterior, specially formulated gypsum lime plasters for a better interior finishing and saving time and money, as well as reducing wastage in product.

We carefully select our raw materials from the local suppliers and internally process them further to bring them to our quality standards.

Our chemical additives are hand selected from the most reputable chemical manufacturers so that we can attain the best results for our customers.

Our foreign and local experts constantly test our products to ensure that SIMENTEK quality we promise to our customers is consistently achieved.

We always stand behind our products and always listen to our customers to meet their needs and supply them the best solution they need.

Simentek is also committed to its natural and ecological responsibilities in compliance with world standards.

SIMENTEK

Our Quality Policy

It is our company's policy to continuously improve our quality management and quality efficiency to become the best at all times in our operations in order to meet customer needs and expectations and to ensure customer satisfaction.

SIMENTEK Vision

We will be the national leader in our field of operation at construction sector, producing the best solutions at all times with our know-how and technological strength.

SIMENTEK Mission

We exist to produce high quality and the best solutions for ever and to add value to our stake holders reflecting our professional competency unto our work with the awareness of our corporate values in our field of operation at construction sector.

SIMENTEK Values

— Professional Competency (Decisiveness / Creativeness / Team Work / Permanent Progress / Use of initiative / delegation)
— Quality
— Corporate Responsibility (Honesty / Trust / Respect)

Our logo characterizes our environment friendly technological products which are designed considering the human health, our firm's environment friendly approach and its services given in accordance with this approach which are stated below.

Our Environmentally-Friendly Products

— Products that do not cause dust during application and storing,
— Products that resistant to mold growth in wet areas,
— Products in which recycled materials and packaging are used as raw materials,
— Light products.

Our Environment Policy

Whilst our company desires to attain a sustainable growth, it is targeting to continuously improve the negative effects of our production operations and other processes on a clean environment. Thus, the following are our company's environment policies:
— To consume economically such natural resources like power, water and fuel,
— To take precautions to minimize the waste from our operations,
— To get prepared against environment accidents via emergency management system,
— To make all our personnel and suppliers aware of environment issues by training,
— To target minimal environmental impact while designing our processes and products,
— To comply with laws and regulations regarding environment and fulfill the requirements of responsible care.

Our Customer Satisfaction and Complaint Handling Policy

Our Customer Satisfaction Policy:
SIMENTEK evaluates opinions, suggestions and complaints from the customers in line with the principle of confidentiality by handling them in an objective, fair and attentive manner, and adopts a customer-oriented approach in which continuous improvements and controls are made.

Our Occupational Health & Safety Policy

Whilst our company desires to attain a sustainable growth, it provides a healthy and safe living and work environment in order to protect human beings as the most important asset who performs all our operations. Thus, the following are our company's job health and job safety policies:
— Continuously reduce the risks in order to attain zero job accident and vocational disease by assessing risks and taking protective measures,
— To make periodic research in job accident and vocational disease issues,
— To protect human health while designing our processes and products,
— To raise the awareness of our personnel and suppliers about job safety by training courses,
— To be prepared for emergency (fire, earthquake etc.) at all times,
— To motivate our suppliers to create a safer work environment and to comply with laws and regulations,
— To take measures in order to ensure safety of suppliers and guests within the boundaries of the plant,
— To comply with laws and regulations regarding job health and safety and fulfill the requirements of responsible care.

Important Points in the Application of Adhesives

— The bonding agent should be checked before applying. Do not use products that are expired, agglomerated or hardened.
— The bonding mortar should be prepared according to the preparation instructions on the label.
— During preparation of the bonding agent, the product or the adhesive should be poured slowly into the specified amount of water as indicated on the label and stirred until a homogeneous mixture is obtained. The mixture should be prepared with a low-speed mixer. Do not add any other additive that is not mentioned on the instructions label.
— Please pay attention to the surface preparation criteria.
— Prior to application, a proper bonding class that fits to the location and the application method should be selected.
— It is of utmost importance to apply a combined method and use bonding mortars with high elasticity.
— In order to obtain a better adhesion surface, the mortar should be first spread over the surface with the flat side of the trowel then combed with the notched side of the selected trowel according to the tile dimensions.
— The tiles should be applied on the combed mortar within the incrustation time given on the instruction label, preferably by applying some pressure. The incrustation time may be shortened when applying under suboptimal conditions like high temperature, low humidity or winds. When the incrustation time is elapsed, no further bonding activity should be done on the mortar, the mortar should rather be scraped off the surface.
— Mortar of which the expiry date on the tab has passed or incrusted mortar should be disposed.
— Please avoid direct water contact for at least 24 hours at tiles that have been bonded with cement-based products.
— If ceramic is to be applied then present dilatations on the surface should be taken into consideration, during laying of the tiles, expansion joints should be provided periodically, a proper profile or a polyurethane mastic should be applied necessarily at the corners and the expansion joints.
— The humidity on surfaces where bonding mortars on epoxy and polyurethane basis shall be applied has to be less than 5%.

SG-400

Standard Tile Adhesive - Gray

Description

Cementitious ceramic tile adhesive with extended open time and reduced slip.

Fields of Application

— Floor and wall bonding of all types of ceramic tiles, mosaic and decorative bricks on cementitious renders, cementitious screeds and concrete.
— The substrates must be notched or primed with SIMENTEK BETONEX before bonding of tiles on existing ceramic tiles.

Properties

— High adhesion strength.
— Allows installation of tiles from top towards the bottom.
— Extended open time.
— Easily trowellable.

Application

— Substrates must be sound, free from oil, grease, and sufficiently dry. Cementitious substrates must be cured.
— Use SIMENTEK SGP500 in case of uneven substrates to get a sound and flat surface.
— Wipe the back side of tiles with water if dusty.
— Pour 25 kg of SG-400 into 6.5-8 litres of clean water slowly and mix to obtain a homogeneous paste free from lumps. A low speed mixer is recommended to mix. Do not add any additive which is not mentioned in the instructions for the application
— Allow to stand for 5-10 minutes to mature. After 1-2 minutes remixing, the paste is ready for application.
— Spread the mortar onto the substrate with notched trowel of which notch size is appropriate to the tile dimension. To obtain a good adhesion first apply a thin coat of SG-400 with the flat side of trowel, then notch with the toothed side of trowel.
— Open time is 30 minutes. Install the tiles within this period with pressure. Unfavorable climatic conditions (high temperature, low humidity, wind, etc) can reduce this time to just a few minutes. If this period exceeds, scratch and discard the mortar.
— Dispose mortars of which pot life is expired. Clean tools and hands with water, surfaces with a damp cloth.
— Tiles installed with SG-400 must not be subject to water for at least 24 hours.

Warnings

— Since contains cement, irritating to eyes, respiratory system and skin.
— Indicated consumption is a general information. It may change depending on the application conditions and surface properties.

Storage

— Store in dry medium. Do not stack more than 10 bags on top of each other.

Packaging

— 25 kg multi-ply paper bags.

Technical Properties	(at 23°C and 50% RH)
General Data	
Appearance	Grey powder
Shelf Life	12 months when stored in the original sealed packing in dry place.
Application Data	
Application Temperature Range	(+5°C)-(+35°C)
Mixing Ratio	6.5-8 lt water / 25 kg powder
Pot Life	Approx. 6 hours
Slip (EN 1308)	≤0.5 mm
Open Time (EN 1346)	After 30 minutes ≥ 0.5 N/mm²
Grouting	8 hours on wall; 24 hours after on floor
Consumption	3-5 kg/m²
Performance Data	
Tensile Adhesion Strength (EN 1348)	
-initial	≥ 0.5 N/mm²
-after heat exposure	≥ 0.5 N/mm²
-after immersion in water	≥ 0.5 N/mm²
-after freeze/thaw cycles	≥ 0.5 N/mm²
Service Temperature Range (after final cure)	(-40°C)-(+80°C)
Dangerous Substances (EN 12004)	Complies
Reaction to Fire	A1

SG-600

Strong Tile Adhesive - Gray

Description

Cementitious ceramic tile adhesive with extended open time and reduced slip.

Fields of Application

— Floor and wall bonding of all types of ceramic and porcelain tiles, mosaic and decorative bricks on cementitious renders, cementitious screeds and concrete.
— The substrates must be notched or primed with SIMENTEK BETONEX before bonding of tiles on existing ceramic tiles.
— Exterior bonding and grouting of glass mosaics.
— Interior and exterior bonding of glass bricks.

Properties

— Perfect adherence.
— Allows installation of tiles from top towards the bottom.
— Extended open time.
— Easily trowellable.

Application

— Substrates must be sound, free from oil, grease, and sufficiently dry. Cementitious substrates must be cured.
— Use SIMENTEK SGP500 in case of uneven substrates to get a sound and flat surface.
— Wipe the back side of tiles with water if dusty.
— Pour 25 kg of SG-600 into 6.5-8 litres of clean water slowly and mix to obtain a homogeneous paste free from lumps. A low speed mixer is recommended to mix. Do not add any additive which is not mentioned in the instructions for the application.
— Allow to stand for 5-10 minutes to mature. After 1-2 minutes remixing, the paste is ready for application.
— Spread the mortar onto the substrate with notched trowel of which notch size is appropriate to the tile dimension (See Notch Size Recommendation Table) To obtain a good adhesion first apply a thin coat of SG-600 with the flat side of trowel, then notch with the toothed side of trowel.
— Open time is 30 minutes. Install the tiles within this period with pressure. Unfavorable climatic conditions (high temperature, low humidity, wind, etc) can reduce this time to just a few minutes. If this period exceeds, scratch and discard the mortar.
— Dispose mortars of which pot life is expired. Clean tools and hands with water, surfaces with a damp cloth.
— Tiles installed with SG-600 must not be subject to water for at least 24 hours.

Warnings

— Since contains cement, irritating to eyes, respiratory system and skin.
— Indicated consumption is a general information. It may change depending on the application conditions and surface properties.

Storage

— Store in dry medium. Do not stack more than 10 bags on top of each other.

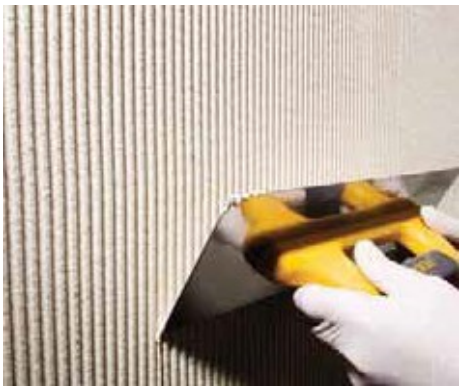
Packaging

— 25 kg multi-ply paper bags.

Technical Properties	(at 23°C and 50% RH)
General Data	
Appearance	Gray powder
Shelf Life	12 months when stored in the original sealed packing in dry place.
Application Data	
Mixing Ratio	6.5-8 litres water / 25 kg powder
Pot Life	Approx. 6 hours
Application Temperature Range	(+5°C)-(+35°C)
Slip (EN 1308)	≤0.5 mm
Open Time (EN 1346)	After 30 minutes ≥ 0.5 N/mm²
Grouting	8 hours on wall; 24 hours after on floor
Consumption	3-5 kg/m²
Performance Data	
Tensile Adhesion Strength (EN 1348)	
-initial	≥ 0.5 N/mm²
-after heat exposure	≥ 0.5 N/mm²
-after immersion in water	≥ 0.5 N/mm²
-after freeze/thaw cycles	≥ 0.5 N/mm²
Service Temperature Range (after final cure)	(-40°C)-(+80°C)
Dangerous Substances (EN 12004)	Complies
Reaction to Fire	A1

SW-600

Strong Tile Adhesive - White



Description

White water resistant cementitious ceramic tile adhesive with extended open time and reduced slip.

Fields of Application

— Floor and wall bonding of all types of ceramic and porcelain tiles, mosaic and decorative bricks on cementitious renders, cementitious screeds and concrete.
— The substrates must be notched or primed with SIMENTEK BETONEX before bonding of tiles on existing ceramic tiles.
— Exterior bonding and grouting of glass mosaics.
— Interior and exterior bonding of glass bricks.

Properties

— Perfect adherence.
— Allows installation of tiles from top towards the bottom.
— Extended open time.
— Easily trowellable.

Application

— Substrates must be sound, free from oil, grease, and sufficiently dry. Cementitious substrates must be cured.
— Use SIMENTEK SGP500 in case of uneven substrates to get a sound and flat surface.
— Wipe the back side of tiles with water if dusty.
— Pour 25 kg of SW-600 into 6.5-8 litres of clean water slowly and mix to obtain a homogeneous paste free from lumps. A low speed mixer is recommended to mix. Do not add any additive which is not mentioned in the instructions for the application.
— Allow to stand for 5-10 minutes to mature.
— After 1-2 minutes remixing, the paste is ready for application.
— Spread the mortar onto the substrate with notched trowel of which notch size is appropriate to the tile dimension (See Notch Size Recommendation Table) To obtain a good adhesion first apply a thin coat of SW-600 with the flat side of trowel, then notch with the toothed side of trowel.
— Open time is 30 minutes. Install the tiles within this period with pressure. Unfavorable climatic conditions (high temperature, low humidity, wind, etc) can reduce this time to just a few minutes. If this period exceeds, scratch and discard the mortar.
— Dispose mortars of which pot life is expired. Clean tools and hands with water, surfaces with a damp cloth.
— Tiles installed with SW-600 must not be subject to water for at least 24 hours.

Warnings

— Since contains cement, irritating to eyes, respiratory system and skin.
— Indicated consumption is a general information. It may change depending on the application conditions and surface properties.

Storage

— Store in dry medium. Do not stack more than 10 bags on top of each other.

Packaging

— 25 kg multi-ply paper bags.

Technical Properties	(at 23°C and 50% RH)
General Data	
Appearance	White powder
Shelf Life	12 months when stored in the original sealed packing in dry place.
Application Data	
Mixing Ratio	6.5-8 litres water / 25 kg powder
Pot Life	Approx. 6 hours
Application Temperature Range	(+5°C)-(+35°C)
Slip (EN 1308)	≤0.5 mm
Open Time (EN 1346)	After 30 minutes ≥ 0.5 N/mm²
Grouting	8 hours on wall; 24 hours after on floor
Consumption	3-5 kg/m²
Performance Data	
Tensile Adhesion Strength (EN 1348)	
-initial	≥ 0.5 N/mm²
-after heat exposure	≥ 0.5 N/mm²
-after immersion in water	≥ 0.5 N/mm²
-after freeze/thaw cycles	≥ 0.5 N/mm²
Service Temperature Range (after final cure)	(-40°C)-(+80°C)
Dangerous Substances (EN 12004)	Complies
Reaction to Fire	A1

SG-800

High Performance Tile Adhesive - Gray

Description

High performance, water resistant, cementitious adhesive with reduced slip.

Fields of Application

— Interior and exterior floor and wall bonding of all types and sizes of ceramic tiles, granite, porcelain ceramic, cotto, clinker, natural stones, on cementitious renders, cementitious screeds and concrete.
— Bonding of tiles on existing ceramic tiles or marble.
— Bonding of tiles on places subject to heavy traffic like shopping malls, hospitals, schools.

Properties

— Perfect adherence.
— Can be applied on vertical surfaces even for bonding of heavy tiles without sagging.
— Easily trowellable.

Application

— Substrates must be sound, free from oil, grease, and sufficiently dry. Cementitious substrates must be cured.
— Use SIMENTEK SGP500 in case of uneven substrates to get a sound and flat surface.
— Wipe the back side of tiles with water if dusty.
— Pour 25 kg of SG-800 into 5.5-7 litres of clean water slowly and mix to obtain a homogeneous paste free from lumps. A low speed mixer is recommended to mix. Do not add any additive which is not mentioned in the instructions for the application
— Allow to stand for 5-10 minutes to mature. After 1-2 minutes remixing, the paste is ready for application.
— Spread the mortar onto the substrate with notched trowel of which notch size is appropriate to the tile dimension (See Notch Size Recommendation Table) To obtain a good adhesion first apply a thin coat of SW-800 with the flat side of trowel, then notch with the toothed side of trowel.
— Application of large tiles (greater than 40x40 cm), on existing tiles or which are subject to frost or heavy traffic, SG-800 should be applied also on the back of tiles. (combined method)
— Open time is 20 minutes. Install the tiles within this period with pressure. Unfavorable climatic conditions (high temperature, low humidity, wind, etc) can reduce this time to just a few minutes. If this period exceeds, scratch and discard the mortar.
— Dispose mortars of which pot life is expired. Clean tools and hands with water, surfaces with a damp cloth.
—Tiles installed with SG-800 must not be subject to water for at least 24 hours.

Warnings

— Since contains cement, irritating to eyes, respiratory system and skin.
— Indicated consumption is a general information. It may change depending on the application conditions and surface properties.

Storage

— Store in dry medium. Do not stack more than 10 bags on top of each other.

Packaging

— 25 kg multi-ply paper bags.

Technical Properties	(at 23°C and 50% RH)
General Data	
Appearance	Grey Powder
Shelf Life	12 months when stored in the original sealed packing in dry place.
Application Data	
Application Temperature Range	(+5°C)-(+35°C)
Mixing Ratio	5.5-7 litres water / 25 kg powder
Pot Life	Approx. 6 hours
Slip (EN 1308)	≤ 0.5 mm
Open Time (EN 1346)	After 20 minutes ≥ 0.5 N/mm²
Grouting	8 hours on wall; 24 hours after on floor
Consumption	3-5 kg/m²
Performance Data	
Tensile Adhesion Strength (EN 1348)	
-initial (after 28 days)	≥ 1 N/mm²
-after heat exposure	≥ 1 N/mm²
-after immersion in water	≥ 1 N/mm²
-after freeze/thaw cycles	≥ 1 N/mm²
Service Temperature Range (after final cure)	(-40°C)-(+80°C)
Dangerous Substances (EN 12004)	Complies
Reaction to Fire	A1

SW-800

High Performance Tile Adhesive - White

Description

High performance, water resistant, cementitious adhesive with reduced slip.

Fields of Application

— Interior and exterior floor and wall bonding of all types and sizes of ceramic tiles, granite, marble, natural stones, porcelain ceramic, cotto, clinker on cementitious renders, cementitious screeds and concrete.
— Bonding of tiles on existing ceramic tiles or marble.
— Bonding of tiles on places subject to heavy traffic like shopping malls, hospitals, schools.

Properties

— Perfect adherence.
— Can be applied on vertical surfaces even for bonding of heavy tiles without sagging.
— Easily trowellable.

Application

— Substrates must be sound, free from oil, grease, and sufficiently dry. Cementitious substrates must be cured.
— Use SIMENTEK SGP500 in case of uneven substrates to get a sound and flat surface.
— Wipe the back side of tiles with water if dusty.
— Pour 25 kg of SW-800 into 5.5-7 litres of clean water slowly and mix to obtain a homogeneous paste free from lumps. A low speed mixer is recommended to mix. Do not add any additive which is not mentioned in the instructions for the application
— Allow to stand for 5-10 minutes to mature. After 1-2 minutes remixing, the paste is ready for application.
— Spread the mortar onto the substrate with notched trowel of which notch size is appropriate to the tile dimension (See Notch Size Recommendation Table) To obtain a good adhesion first apply a thin coat of SW-800wr with the flat side of trowel, then notch with the toothed side of trowel.
— Application of large tiles (greater than 40x40 cm), on existing tiles or which are subject to frost or heavy traffic, SW-800 should be applied also on the back of tiles. (combined method)
— Open time is 20 minutes. Install the tiles within this period with pressure. Unfavorable climatic conditions (high temperature, low humidity, wind, etc) can reduce this time to just a few minutes. If this period exceeds, scratch and discard the mortar.
— Dispose mortars of which pot life is expired. Clean tools and hands with water, surfaces with a damp cloth.
—Tiles installed with SW-800 must not be subject to water for at least 24 hours.

Warnings

— Since contains cement, irritating to eyes, respiratory system and skin.
— Indicated consumption is a general information. It may change depending on the application conditions and surface properties.

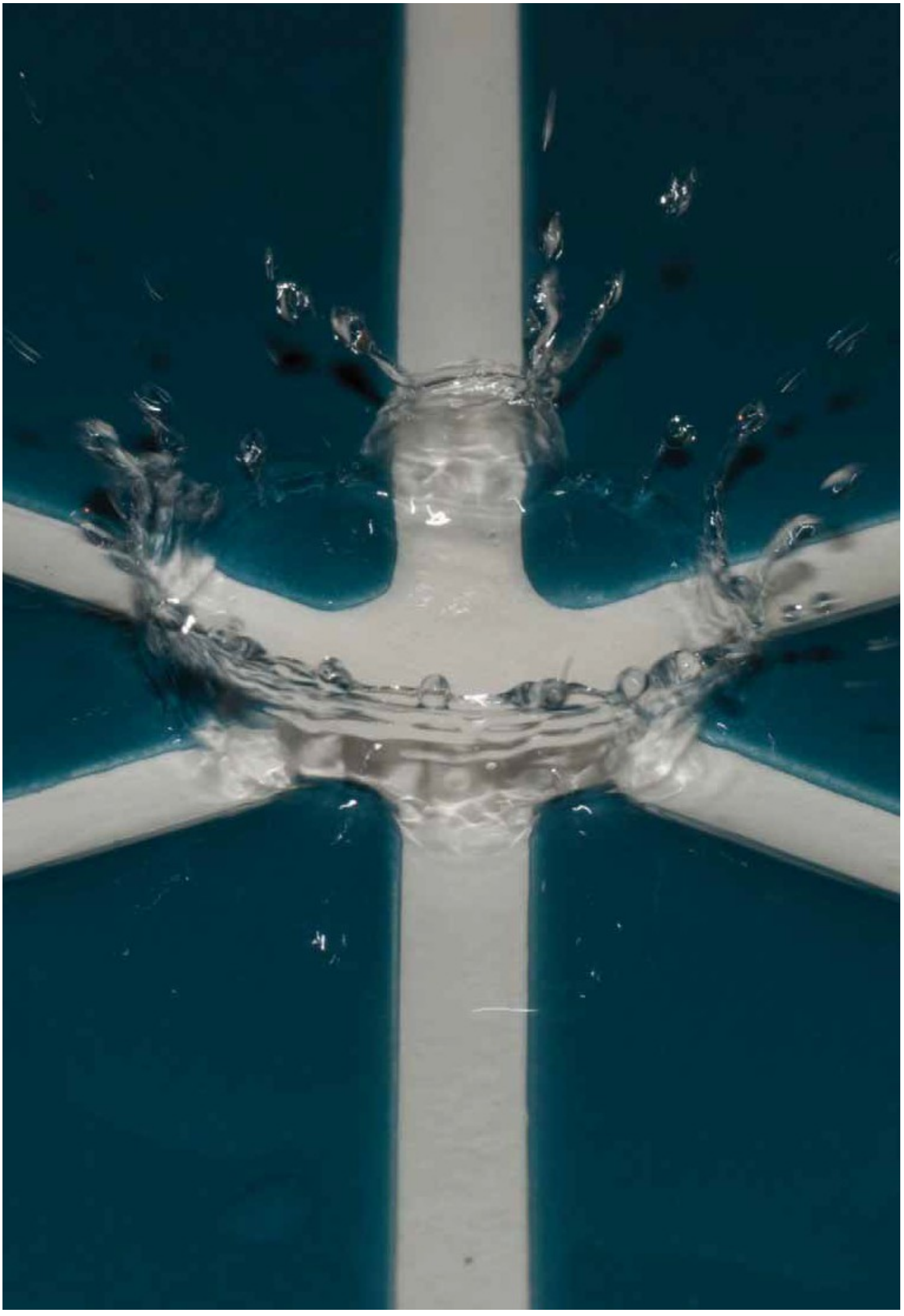
Storage

— Store in dry medium. Do not stack more than 10 bags on top of each other.

Packaging

— 25 kg multi-ply paper bags.

Technical Properties	(at 23°C and 50% RH)
General Data	
Appearance	White Powder
Shelf Life	12 months when stored in the original sealed packing in dry place.
Application Data	
Application Temperature Range	(+5°C)-(+35°C)
Mixing Ratio	5.5-7 litres water / 25 kg powder
Pot Life	Approx. 6 hours
Slip (EN 1308)	≤ 0.5 mm
Open Time (EN 1346)	After 20 minutes ≥ 0.5 N/mm²
Grouting	8 hours on wall; 24 hours after on floor
Consumption	3-5 kg/m²
Performance Data	
Tensile Adhesion Strength (EN 1348)	
-initial (after 28 days)	≥ 1 N/mm²
-after heat exposure	≥ 1 N/mm²
-after immersion in water	≥ 1 N/mm²
-after freeze/thaw cycles	≥ 1 N/mm²
Service Temperature Range (after final cure)	(-40°C)-(+80°C)
Dangerous Substances (EN 12004)	Complies
Reaction to Fire	A1



Important Points in the Application of Tile Joint Fillers

— Prior to application the grout should be checked. Do not use products that are expired, agglomerated or hardened.
— The grout should be prepared according to the preparation instructions on the label.
— During preparation of the grout, the powder should be poured slowly into the specified amount of water as indicated on the label and stirred until a homogeneous mixture is obtained. The mixture should be prepared with a low-speed mixer. Do not add any other additive that is not mentioned on the instructions label.
— The grout should be prepared in the same consistence for floor as well as walls.
— Prior to applying the grout, the joint gaps should be cleaned and the joint gaps should be wetted so that the grout mortar will not dry out quickly.

— First wiping at the grouting application can be done after having filled the joints and the remnants have become matt on the ceramic surface.
— The wiping of grouting should be done properly. Remnants of dirt on the ceramic tiles shall not enter the joint gaps.
— During wiping use a properly wrung out, damp- dry sponge. Do not wipe wet.
— During application, a proper grouting agent that fits the joint width and location should be used.

FUGA-SIL5

Water Resistant Tile Joint Filler (1-6 mm)

Description

High performance (high resistance to abrasion and reduced water absorption), cementitious, silicone enhanced, fungi and yeast resistant grout for 1 to 6 mm joints.

Fields of Application

— Grouting all types and sizes of ceramics (clinker, cotto, porcelain, granite tile, etc.), glass mosaic stones for 1-6 mm joints.
— Interior floor and wall grouting of places like bathrooms, showers, balconies and kitchens.

Properties

— Less prone to dirtiness, easy to clean.
— Low water absorption with water repellency.
— Resistant to fungi & yeast growth.
— A smooth final surface.
— Low shrinkage, therefore absence of cracks and fissures.
— Very good abrasion resistance.
— Available in most common colors

Application

— Before grouting, wait until the adhesive has completely set.
— The joints must be clean, free of dust and raked back to at least 2/3 of the tile thickness.
— Wet the joints with clean water when using very porous ceramic tiles in high temperatures and in the presence of wind.
— Pour 5 kg of FUGA-SIL into 1.5 litres of clean water slowly and mix to obtain a homogeneous paste free from lumps. A low speed mixer is recommended to mix. Amount of water should be precisely measured. Do not add any additive which is not mentioned in the instructions for the application. Excess water can cause cracking, low abrasion resistance and color defects.
— Allow to stand for 5-10 minutes to mature. After 1-2 minutes remixing, the paste is ready for application.
— Fill the joints completely with FUGA-SIL using the appropriate rubber trowel, making sure the joints are completely compacted. Remove excess FUGA-SIL from the surface moving the float diagonally across joints.
— When the mixture loses its plasticity and becomes matt, usually after 10-20 minutes, clean the surface with a damp sponge working diagonally to the joints. If cleaning is carried out when the mixture is still plastic, the grout may be dragged from the joint leading to color variations.
— Any residue left can be cleaned from the surface with a clean dry cloth.
— Dispose mortars of which pot life is expired. Clean tools and containers with plenty of water before FUGA-SIL (1-6 mm) hardens.
— When applying FUGA-SIL in extremely hot, dry or windy climates, it is recommended to wet the joints after several hours to improve the final performance.

Warnings

— Since contains cement, irritating to eyes, respiratory system and skin.

Storage

— Store in dry medium. Do not stack more than 10 bags on top of each other.

Packaging

— 5 kg polyethylene bags.
— 2 kg polyethylene bags.

Technical Properties	(at 23°C and 50% RH)
General Data	
Appearance	White and colored powder
Shelf life	12 months when stored in the original sealed packing in dry place
Application Data	
Application Temperature Range	(+5°C)-(+35°C)
Mixing Ratio	1.50-1.65 lt water / 5 kg powder
Pot Life	1 hour
Set to Light Traffic	12 hours on floor
Consumption	See consumption table depending on width of the joints and dimensions of the tile
Performance Data	
Flexural Strength (EN 12808-3)	≥ 2.5 N/mm²
Compressive Strength (EN 12808-3)	≥ 15 N/mm²
Flexural Strength (after freze/thaw cycles) (EN 12808-3)	≥ 2.5 N/mm²
Compressive Strength (after freze/thaw cycles) (EN 12808-3)	≥ 15 N/mm²
Abrasion Resistance (EN 12808-2)	≤ 1000 mm³
Shrinkage (EN-12808-4)	≤ 3 mm/m
Water Absorption after 30 min / 4 hours (EN 12808-5)	≤ 2 gr / ≤ 5 gr
Service Temperature Range (after final cure)	(-30°C)-(+80°C)

Colors of Tile Joint Fillers

FUGA-SIL

White (100)

Beige (101)

Ivory (102)

Crème (103)

Light Brown (104)

Dark Brown (105)

Light Gray (106)

Dark Gray (107)

Black (108)

Blue (109)

Green (110)

Almond Green (111)

The colors above are printing colors. The most realistic colors have been chosen. Actual product color may be slightly different.

JOINT GAP WIDTH (mm)	JOINT GAP DEPTH (mm)	TILE DIMENSIONS (mm)	CONSUMPTION (gr./m²)	JOINT GAP WIDTH (mm)	JOINT GAP DEPTH (mm)	TILE DIMENSIONS (mm)	CONSUMPTION (gr./m²)
1	6	100x100	200	7	7	200x200	860
1	6	100x200	200	7	7	250x250	690
1	9	100x200	250	7	8.5	300x300	700
1	6	150x150	150	7	9	300x600	550
1	8	200x200	170	7	7	330x330	520
1	9	200x250	120	7	9	330x500	560
1	8	200x300	130	7	9	400x400	550
1	8	250x330	100	7	12	600x600	500
1	9	300x300	100	7	15	150x300	1850
2	6	100x100	400	7	15	250x250	1500
2	6	100x200	300	7	18	300x300	1500
2	9	100x200	500	10	7	200x200	1230
2	6	150x150	270	10	7	250x250	1000
2	8	200x200	340	10	8.5	300x300	1000
2	9	200x250	250	10	9	300x600	860
2	8	200x300	250	10	7	330x330	750
2	8	250x330	200	10	9	330x500	800
2	9	300x300	200	10	9	400x400	800
3	6	100x100	600	10	12	600x600	700
3	6	100x200	500	10	15	150x300	2650
3	9	100x200	750	10	15	250x250	2100
3	6	150x150	400	10	18	300x300	2100
3	8	200x200	500				
3	9	200x250	360				
3	8	200x300	400				
3	8	250x330	300				
3	9	300x300	300				
4	7	200x200	500				
4	7	250x250	400				
4	8.5	300x300	400				
4	9	300x600	320				
4	7	330x330	300				
4	9	330x500	320				
4	9	400x400	315				
4	12	600x600	280				
4	15	150x300	1050				
4	15	250x250	850				
4	18	300x300	850				
5	7	200x200	620				
5	7	250x250	500				
5	8.5	300x300	500				
5	9	300x600	400				
5	7	330x330	380				
5	9	330x500	400				
5	9	400x400	400				
5	12	600x600	350				
5	15	150x300	1350				
5	15	250x250	1050				
5	18	300x300	1050				

Important Points in the Application of Waterproofing Materials

— The size of the area to be waterproofed, the climatic and mechanical conditions which will affect the area, the pressure, exposure duration and chemical properties of the water determine the details and the type of the waterproofing system and products to be used. All these criteria should be taken into consideration for the product choice.
— Control the shelf life and the product before the application.
— Attention should be paid to surface preparation criteria.
— Prepare the product according to instructions on the package.
— Corners and joints should be softened and waterproofed. Waterproofing tapes should be used for construction joints.
— Before application of cement based waterproofing materials, surface must be primed with SIMENTEK PRIMER or must be dampened in order to lower surface absorbency.
— In the application of acrylic based ELASTICOR, surface must be primed by diluting ELASTICOR by adding water at the ratio of ¼, then the material must be applied in 2 layers vertically and 3 layers horizontally without adding water. Use as it is.
— If ceramic tiling is to be done on surface after ELASTICOR application, sand blasting must be made during last layer application using washed and baked sand of max. 300 microns.
— In order to get good results, waterproofing materials must be applied to surface in the recommended number of layers, in product data sheet to ensure total required application thickness.
— At terrace applications, waterproofing must start under cap on parapet walls.
— At points where cold joints occur in pools, foundation, curtain wall applications waterproofing tapes must be used.

IZOLATEX PLUS

Highly Flexible Waterproofing Mortar

Description

Highly flexible waterproofing compound having high resistance to salts for interior and exterior applications, composed of emulsion polymer-based liquid and waterproofing, workability improving additives containing cementitious powder components.

Fields of Application

— Waterproofing of swimming pools, hammam, bathrooms, showers, balconies, terraces before laying ceramic tiles.
— Waterproofing of concrete basins of potable water.
— Waterproofing of underground concrete elements like foundations, retaining walls, basement walls.
— Waterproofing of places subject to deformation, pedestrian and load traffic.
— Waterproofing of concrete basins subject to sea water and de-icing salts.

Properties

— Approved to be used in contact with water intended for human consumption.
— Excellent bonding on all concrete and masonry.
— Non-corrosive for steel and construction elements.
— Applicable both on horizontal and vertical surfaces.
— Resistant to freeze-thaw.
— Prevents concrete against de-icing salts like calcium and sodium chloride, seawater and carbondioxide gas and carbonation.
— Easy to apply either by brush, roller or trowel.

Application

— The substrate must be solid, dry, free of dust, loose parts, paint, wax, oils, rust and traces of gypsum. Cementitious substrates must be cured. Use SIMENTEK SGP500 in case of any loose and uneven substrates to get a sound and flat surface.
— Application should not be under direct sunlight. Dampen absorbent surfaces to be treated beforehand with water.
— Pour 10 litres liquid component into a suitable clean container. Then slowly add 20 kg powder component and mix with a low speed mixer to obtain a homogenous lump free mix.
— Allow to stand for 5 minutes to mature. After remixing for 1-2 minutes, the paste is ready for application.
— Apply a thin layer of IZOLATEX PLUS with brush, roller or trowel, then after 5-6 hours apply a second coat, to have a final thickness of approximately 2-3 mm
— Insert a 4.5x4 mm mesh in the first layer of IZOLATEX PLUS when operating around expansion joints, joints between horizontal and vertical surfaces, areas with small cracks or places subject to stress. After the mesh has been laid apply a second layer of IZOLATEX PLUS when the first one has set (after 5-6 hours) or use Kalekim waterproofing for these joints.
— Use IZOLATEX PLUS within pot life. Unfavorable climatic conditions (high temperature, low humidity, wind etc) can reduce this time to just a few minutes.
— Dispose mortars of which pot life is expired. Clean tools and hands with water.
— Protect the surface from direct sunlight, rain, freezing and wind for the first 24 hours after application.
— If IZOLATEX PLUS applied surface is subject to foot traffic, cover the surface with a flooring compound or tiles.
— After applying IZOLATEX PLUS, wait at least 3 days for curing in favorable climatic conditions before laying ceramic tiles.
— Avoid mechanical damage on the waterproofing material during covering application.
— When IZOLATEX PLUS is used waterproofing drinking water tanks, do not fill the tank before waiting 28 days for curing.

Technical Properties	(at 23°C and 50% RH)
General Data	
Appearance	1st component: Grey powder; 2nd component: White liquid.
Shelf life (Powder and liquid)	12 months when stored in the original sealed packaging
Application Data	
Application Temperature	(+5°C)-(+35°C)
Mixing Ratio	10 lt liquid / 20 kg powder
Mixing	~3 mins.
Pot Life	6 hours
Consumption (avr.)	1.7 kg/m² (per 1 mm thickness)
Waiting Time Between the Coats	5-6 hours
Ready to use	7 days
Performance Data	
Waterproofing Capacity (for 3 mm thickness)	≥7 bar (positive)
Tensile Strength (EN 1542)	≥1.00 N/mm²
Tensile Adhesion Strength After Cycling Without De-icing Salts Impact (EN 13687-3 / EN 1542)	≥1.00 N/mm²
Tensile Adhesion Strength After Heat Ageing (EN 1062-11 : EN 1542)	≥0.50 N/mm² / ≥1.00 N/mm²
Resistance to Accelerated Ageing (EN 1062-11):	No visual change. (After 2000 hrs UV radiation and humidity)
Chemical Resistance (EN ISO 2812-1)	No visible deformation after 30 days
Crack Bridging (21ºC, EN 1062-7)	≥2.5 mm (A5)
Flexibility	Highly flexible
Chloride Diffusion (ASTM C1202)	≤200 Coulomb (Class: Very low permeability)
Carbon dioxide Permeability (EN 1062-6)	Sd >50 m (Sd: equivalent air thickness)
Water-vapour permeability (EN ISO 7783-2)	Class I; Sd <5 (Sd: equivalent air thickness)
Capillary Water Absorption (EN ISO 1062-3)	≤0.1 kg/m²h$^{0.5}$
Heat Resistance	(-40°C)-(+80°C)
Dangerous Substances	Comply with 5.3
Reaction to Fire	European classification Cs1d0

Warnings

— Since contains cement, irritating to eyes, respiratory system and skin.
— Indicated consumption is a general information. It may change depending on the application conditions and surface properties.

Storage

— Liquid component: Store in temperatures from 5°C to 23°C in original sealed packing and keep it out of direct sunlight Powder component: Store in dry medium.
Do not stack more than 10 bags on top of each other.

Packaging

— Powder component: 20 kg multi-ply paper bags,
— Liquid component: 10 lt drums.

— Powder component: 10 kg plastic bags,
— Liquid component: 5 lt drums.

ELASTICOR

Acrylic Waterproofing Material

Description

Acrylic emulsion based, one component, brush or roller applicable, elastic waterproofing material.

Fields of Application

— Waterproofing of the all types of flat or sloping roofs like concrete, plaster, asbestos cement, tile, aluminum, zinc, PVC, asphalt (at least one year old).
— Waterproofing of north side of buildings.
— For crack bridging.

Properties

— Ready to use, easily applicable with brush and roller.
— Low labor cost.
— 600% elastic.
— Water vapor permeable.
— Highly resistant to UV rays.
— Elastic at low temperatures.
— Over paintable.

Application

— The substrate must be solid, dry, free of dust, loose parts, paint, wax, oils, rust and traces of gypsum. Cementitious substrates must be cured.
— Use SGP500 or a mixture of ELASTICOR and fine sand (3 parts of sand 1 part of ELASTICOR) in case of any loose and uneven substrates to get a sound and flat surface.
— Before application, prime the surface with ELASTICOR diluted with water at 1/4 ratio. For metal surfaces use an anticorrosion primer. Do not dilute unless used as a primer.
— Apply on to the surface in two or preferably three coats with brush or roller. Total thickness of application should be 1.0-1.5 mm
— Waiting time between the applications of two layers is about 4 hours depending on the temperature. Additives which are not recommended in data sheet should not be used.
— Pail should be closed while waiting. Freezing should be avoided.
— Insert a 4.5x4 mm mesh in the first layer of ELASTICOR when operating around expansion joints, joints between horizontal and vertical surfaces, areas with small cracks or places subject to stress. After the mesh has been laid apply a second layer of ELASTICOR.
— Do not apply in extremely hot weather, under direct sunlight and when strong wind, fog, rain or frost is expected. Lower temperatures and higher relative humidity will lengthen the drying process.
— If ELASTICOR applied surfaces is subject to foot traffic, cover the surface with a flooring compound or tiles.
— Use at least S1 type flexible tile adhesive for tiling.
— Sanding ELASTICOR applied surface before drying improves adhesion strength on it.

Warnings

— For further information refer to safety data sheet.
— Low temperature and high humidity may elongate drying time.
— The surface to be applied should not be dump.
— Do not use for the areas exposed to water permanently.
— Indicated consumption is a general information. It may change depending on the application conditions and surface properties.

Storage

— Store in temperatures from 5°C to 35°C in original sealed packing.

Packaging

— 20 lt plastic pails.

Technical Properties	(at 23°C and 50% RH)
General Data	
Appearance	White liquid
Shelf life	12 months when stored in the original sealed packaging
Application Data	
Application Temperature Range	(+5°C)-(+35°C)
Waiting Time Between the Coats	4 hours
Ready to Use	3-7 days
Consumption (avr.)	1.5 kg/m² (for 1 mm thickness)
Application (vertical)	2 layers Thickness: 0.75-1.00 mm
Application (horizontal)	3 layers Thickness: 1.00-1.50 mm
Performance Data	
Tensile Strength (EN 1542)	≥0.8 N/mm²
Tensile Adhesion Strength After Cycling Without De-icing Salts Impact (EN 13687-3 / EN 1542)	≥0.8 N/mm²
Resistance to Accelerated Ageing (EN 1062-11)	No visual change. (After 2000 hrs UV radiation and humidity)
Crack Bridging (21ºC / -10ºC : EN 1062-7)	≥2.5 mm (A5) / ≥1.5 mm (A4)
Flexibility	Highly flexible
Water-vapor Permeability (EN ISO 7783-2)	Class I; Sd < 5 (Sd: equivalent air thickness)
Carbon dioxide Permeability (EN 1062–6)	Sd > 50 m (Sd: equivalent air thickness)
Chloride Diffusion (ASTM C1202)	≤200 Coulomb (Class: Very low permeability)
Capillary Water Absorption (EN ISO 1062-3)	≤0.1 kg/m²h$^{0.5}$
Service Temperature Range	(-30°C)-(+80°C)
Dangerous Substances	Comply with 5.3
Reaction to Fire	European classification Ds1d0

Important Points In the Application of Surface Preparation Materials

— Surface preparation material to be used should be selected according to the type and the properties of the surface and the material which will be applied on the prepared surface. The mechanical and climatic conditions should be taken into consideration.
— Primers should be chosen according to the surface porosity, absorbency and smoothness.
— Shelf life and product should be controlled before the application.

— Surface preparation criteria should be taken into consideration. The surface needs to be clean, dry and sound.
— Repair mortar should be chosen according to the mechanical requirements of the area to be repaired.
— Products should be prepared according to the instructions on the package.
— For further information about the products; please contact with the Technical Office (info@simentek.com)

SGP500

Gray Wall Putty and Repairing Mortar

Description

Indoor and outdoor rendering and levelling mortar walls, floors and ceilings in thickness from 1 to 5 mm

Fields of Application

— Smoothening walls prior to restoration, ceramic tiles installation and painting.
— Smoothening and filling hairy cracks on the surfaces of foamed cement, concrete, brick walls.
— Repairing old, damaged renders, concrete up to 1-5 mm

Properties

— High adhesion strength.
— Smooth and solid surface.
— Resistant to freeze and thaw.
— Applicable up to 1-5 mm thickness.
— Easily applicable.

Application

— Substrates must be compact, free of dust, loose parts and clean from oils, grease, paint or adhesive residues when SIMENTEK SGP500 can be applied to damp surfaces without cure time will be slightly prolonged.
— It is advisable to wet highly absorbent substrates.
— Pour 25 kg of SIMENTEK SGP500 into 5.5-6 litres of clean water slowly and mix to obtain a homogeneous paste free from lumps. (A low speed mixer is recommended to mix).
— Allow to stand for 5-10 minutes to mature. After remixing, the paste is ready for application.
— Apply SIMENTEK SGP500 with a flat trowel with a firm pressure to ensure a good adhesion.
— When applying on walls directly exposed to sun or wind, it is advisable to wet the surface of SIMENTEK SGP500 for the following 24 hours after application. For surfaces having ideal humidity and in ideal weather conditions, wait for 6 hours before tiling. Waiting time will be shorter in summer and longer in winter conditions.
— The mortar should be used within 25 minutes. Unfavorable climatic conditions like high temperature, low humidity, wind may shorten this duration.
— Dispose mortars of which pot life is expired.
— Clean tools and hands with water, surfaces with a damp cloth.

Warnings

— Since contains cement, irritating to eyes, respiratory system and skin. For further information refer to safety data sheet.
— Indicated consumption is a general information. It may change depending on the application conditions and surface properties.

Storage

— Store in dry medium. Do not stack more than 10 bags on top of each other.

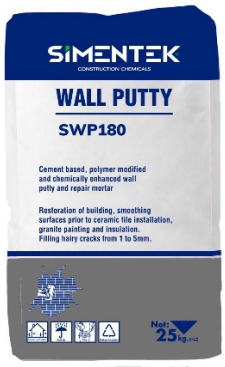
Packaging

— 25 kg multi-ply paper bags.

Technical Properties	(at 23°C and 50% RH)
General Data	
Appearance	Grey powder
Shelf Life	12 months when stored in the original sealed packing in dry place.
Application Data	
Application Temperature Range	(+5°C)-(+35°C)
Mixing Ratio	.5-6 litres water / 25 kg powder
Pot Life	Min. 25 minutes
Application Thickness	Max. 5 mm (for single layer)
Consumption (avr.)	1.55 kg/m² (per 1mm thickness)
Waiting Time Before Bonding	6 hours
Performance Data	
Compresive Strength after 28 days (EN 12808-3)	≥15.0 N/mm² (28 days)
Flexural Strength after 28 days (EN 12808-3)	≥4.0 N/mm²
Tensile Strength (EN 1542)	≥1.0 N/mm²
Service Temperature Range (after final cure)	(-30°C)-(+80°C)
Restrained Shrinkage-Expansion (EN 12617-4)	≥0.8 N/mm²
Capillary Water Absporption (EN 13057)	≤0.5 kg/m²$h^{0,5}$
Dangerous Substances	Complies
Reaction to Fire (EN 13501-1)	A1

SWP180

White Wall Putty and Repairing Mortar



Description

Cementitious, polymer reinforced filling and repair rendering for smoothening surface prior to painting.

Fields of Application

— Filling hairy cracks on and smoothening of the surfaces of foamed cement, concrete, brick walls prior to painting.
— Smoothening walls prior to restoration.
— Repairing wall and ceiling renders.
— Repairing old, damaged renders, concrete up to 1-5 mm

Properties

— High adhesion strength.
— Smooth and solid surface.
— Easily paintable due to white color.
— Resistant to freeze and thaw.
— Applicable up to 1-5 mm thickness.
— Easily applicable.

Application

— Substrates must be compact, free of dust, loose parts and clean from oils, grease, paint or adhesive residues when SIMENTEK SWP500 can be applied to damp surfaces without cure time will be slightly prolonged.
— It is advisable to wet highly absorbent substrates.
— Pour 25 kg of SIMENTEK SWP500 into 6-7 liters of clean water slowly and mix to obtain a homogeneous paste free from lumps. (A low speed mixer is recommended to mix).
— Allow to stand for 5-10 minutes to mature. After remixing, the paste is ready for application.
— Apply SIMENTEK SWP500 with a flat trowel with a firm pressure to ensure a good adhesion.
— When applying on walls directly exposed to sun or wind, it is advisable to wet the surface of SIMENTEK SWP500 for the following 24 hours after application. For surfaces having ideal humidity and in ideal weather conditions, wait for 6 hours before tiling. Waiting time will be shorter in summer and longer in winter conditions.
— The mortar should be used within 25 minutes. Unfavorable climatic conditions like high temperature, low humidity, wind may shorten this duration.
— Dispose mortars of which pot life is expired.
— Clean tools and hands with water, surfaces with a damp cloth.

Warnings

— Since contains cement, irritating to eyes, respiratory system and skin.
— Indicated consumption is a general information. It may change depending on the application conditions and surface properties.

Storage

— Store in dry medium. Do not stack more than 10 bags on top of each other.

Packaging

— 25 kg multi-ply paper bags.

Technical Properties	(at 23°C and 50% RH)
General Data	
Appearance	White powder
Shelf Life	12 months when stored in the original sealed packing in dry place.
Application Data	
Application Temperature Range	(+5°C)-(+35°C)
Mixing Ratio	6-7 liters water / 25 kg powder
Pot Life	Min. 1 hour
Application Thickness	Max. 5 mm (for single layer)
Consumption (avr.)	1.26 kg/m² (per 1 mm thickness)
Waiting Time Before Bonding (Ready For Use)	24 hours
Performance Data	
Compressive Strength (EN 12808-3)	≥ 10.0 N/mm² (28 days)
Flexural Strength (EN 12808-3)	≥ 2.5 N/mm²
Tensile Strength (EN 1542)	≥ 0.8 N/mm²
Service Temperature Range (after final cure)	(-30°C)-(+80°C)
Dangerous Substances	Complies
Reaction to Fire (EN 13501-1)	A1

BETONEX

Smooth Surface Primer

Description

Solvent-free, polymer dispersion based, pigmented, smooth concrete surface primer.

Fields of Application

— For indoor and outdoor applications
— For vertical and horizontal surfaces
— For ceilings
— Adhesion improving primer for the application of gypsum, lime and cement-based plasters on smooth concrete surfaces.

Properties

— Increases the adhesion strength of tile adhesives on smooth concrete surfaces by forming a rough surface.
—Prevents the rapid water loss of cement and gypsum-based plasters and provides longer and better workability.
— Ready to use. Easily applicable with either roller or brush.
— Solvent - free. Does not smell and does not harm to environment.

Application

— The substrate must be cured.
— The surface should be cleaned from dust, dirt, oil and old blistered coatings that may prevent good adhesion.
— If necessary, the surface cracks should be filled and substrate should be evened with SIMENTEK SGP500.
— SIMENTEK BETONEX can be applied by brush or roller after adding 3 lt of water into the pail of 12 kg SIMENTEK BETONEX and mixing well with a low speed mixer. Mixing with max 500 rpm. mixer is recommended.
— The mixture in the pail should be remixed periodically during application.
— Drying time is 45-60 minutes. Do not apply anything on within this period.
— Ensure that the air and the surface temperature is above 5°C and the surface is protected from rain during application.
— Plaster should be applied after min. 24 hours on the SIMENTEK BETONEX.
— Hands and equipment should be washed well after application.

Warnings

— Indicated consumption is a general information. It may change depending on the application conditions and surface properties.

Storage

— Store in clean and dry medium and in temperatures from 5°C-35°C

Packaging

— 12 kg plastic pails.

Technical Properties	(at 23°C and 50% RH)
General Data:	
Appearance	Light orange
Shelf Life	12 months when stored in the original packaging at temperatures
Density	Approx. 1.55 gr./cm³
Application Data:	
Application Temperature Range	(+5°C) - (+35°C)
Drying Time	45-60 minutes
Waiting Time After Application	Min. 24 Hours
Consumption (Average)	150-250 gr./m² per coat (depending on the evenness and the porosity of the surface)
Thickness of application	Min. 0,20 mm / Max. 0,40 mm

PRIMER

Acrylic Primer

Description

Ready to use acrylic based primer.

Fields of Application

—Improving the adhesion of cementitious compounds on concrete, gypsum, ceramic and marble surfaces.

— Treating surfaces against dusting and absorption, prior to ceramic tiling, screeding, waterproofing and painting applications.

Properties

— Reduce porosity and absorption.

— Extends working time for cementitious and gypsum based finishing products.

— Fixes the dusting parts on the surface and improves adhesion of paint, tiles by adhesive and mortar for renders.

— Prevents shrinkage cracks.

— Applicable to any surface.

— Forms a flexible, compact, shiny film.

— On the surface of gypsum, prevents chemical reaction between sulphates and the cement aluminates of the tile adhesives, in the presence of moisture, leads to the formation of salt named "ettringite" which is the cause of tile breaking away from gypsum substrate.

— Prevents over-rapid absorption of water by the substrate.

— Ready to use.

— Easily applicable with roller and brush.

Application

— Surfaces must be cured.

— Surface must be clean, dry and free from oils, grease, residual paint and other loose material.

— Shake the SIMENTEK PRIMER just before use, apply it as 2 layers and spread it uniformly on the surface with a flat brush or a roller without diluting it.

— 2 layers should be applied on over-absorbing surfaces like gypsum, concrete and screed.

— Drying time is 45-50 minutes. The product should be dryed prior to further application.

— Surface temperature must be min. 5°C and there must not be precipitation.

— Hands and equipment used should be washed well.

Warnings

— Indicated consumption is a general information. It may change depending on the application conditions and surface properties.

Storage

— Store in original sealed packing in dry medium in 5°C-35°C temperature. Protect from frost and direct sunlight.

Packaging

— 16 kg pail.

Technical Properties	(at 23°C and 50% RH)
General Data	
Appearance	White liquid.
Shelf Life	12 months in original sealed packaging
Application Data	
Application Temperature Range	(+5°C)-(+35°C)
Minumum Drying Time	45-60 minutes
Pot Life	20 minutes
Consumption (Avr.)	150 gr/m²

SIVA

Base Coat Gypsum Plaster

Description

SIVA is a gypsum-based, specially formulated ready-to-use plaster that can be applied directly to brick, concrete, hollow concrete blocks etc. SIVA can be used for interior walls, and ceilings.

Fields of Application

— Ceilings and walls of internal areas of all buildings that must be plastered such as concrete, brick, hollow concrete block (HCB).

Properties

— Balances humidity.

— Can be applied directly and safely on the interior ceilings and walls of the buildings requiring plastering and, on the brick, hollow concrete block and similar surfaces without the need for mortar plaster first.

— Its long workability time enables an easy application with a low waste rate.

— SIVA does not slump while setting on the surfaces to which it is applied.

Preparation of the Surface

The surfaces to be plastered must be cleaned of material that hinder the adhesion, such as dust, oil etc. If the brick wall is too hot due to the sun, it must be moisturized. The exposed concrete surfaces must be roughened before plastering or be primed with SIMENTEK BETONEX before 12 hours.

The plaster thickness must be adjusted in such a way that it is min. 5 mm and maximum 25 mm on the wall surface.

Application

— Add 6-6,5 L water to a clean bowl. And add 10 kg SIVA slowly until it covers the water surface.

— Wait a few minutes, then mix until a lump-free, dough like mortar is achieved. After mixing, the mortar is ready to use. The mortar in the bowl can be used for approximately 1 hour.

— To apply, use a straightedge profiled plastering trowel and a steel spatula. Scrape off any residues after they set.

— SIVA can be applied as a single layer 5-40 mm thick onto brick, concrete and hollow concrete block wall surfaces; and 5-20 mm thick onto ceilings and exposed concrete surfaces.

— Dry and hot surfaces should be dampened before application.

— Never mix SIVA with any other product or material (except SATEN).

— Use a low-speed mechanical mixer.

— Do not add any water or plaster to the mortar after mixing.

Warnings

— Indicated consumption is a general information. It may change depending on the application conditions and surface properties.

Storage

— Store in dry medium. Do not stack more than 20 bags on top of each other.

Packaging

— 25 kg polypropylene bags.

Technical Properties	(at 23°C and 50% RH)
General Data	
Appearance	White powder
Shelf Life	12 months when stored in the original sealed packing in dry place.
Application Data	
Application Temperature Range	(+5°C)-(+35°C)
Mixing Ratio	10 kg gypsum, between for 6,0 - 6,5-liter water
Setting Time	120 minutes *
Application Time	60 minutes
Consumption (average)	10 m2 per 25kg bag at 2.5mm thickness
Drying Time	Max. 4 days
Performance Data	
Compressive Strength after 28 days	Min 2,5 N/mm2
Flexural Strength after 28 days	Min 1,0 N/mm2
Heat Conductivity	0,30 w/mk (0,26 kcal/mh0c)
Surface hardness)	40 Shore D)
Water Absorption	32% of weight
Dangerous Substances	Complies
Reaction to Fire	A1

*The indicated setting periods may vary at a rate of +/- 10 % depending on the application and seasonal conditions.

SATEN

Finishing Coat Gypsum Plaster

Description

SATEN is a gypsum-based, specially formulated ready-to-use finishing plaster with its high adherence

Fields of Application

— SATEN is used as an undercoat for all types of painting.

— It can be applied to SIVA, gypsum board and gypsum block surfaces to obtain very smooth finishing.

Properties

— Balances humidity.

— Special additives in its formulation delay the absorption of SATEN mortar's water by the substrate.

— Its long workability time enables an easy application with a low waste rate.

— SATEN's putty-like texture makes it easy to apply.

Preparation of the Surface

The surfaces to be plastered must be cleaned of material that hinder the adhesion, such as dust, oil etc.

Application

— Add water to a clean bowl.

— Add SATEN slowly until it covers the water surface. Wait for a few minutes, then mix the mortar until a homogeneous mixture is achieved. After mixing, the mortar is ready to use.

— Use a low-speed mechanical mixer.

— Do not add water or plaster to the mortar after mixing.

— The mortar in the bowl can be used for approximately 1 hour.

— Never mix SATEN with any other product or material.

— To apply, use a plaster trowel and a steel spatula.

— Scrape off any residues after they set.

Warnings

— Indicated consumption is a general information. It may change depending on the application conditions and surface properties.

— Do not allow bags to be in contact with the ground or with moisture

Storage

— Store in dry medium. Do not stack more than 20 bags on top of each other.

Packaging

— 25 kg polypropylene bags.

Technical Properties	(at 23°C and 50% RH)
General Data	
Appearance	White powder
Shelf Life	12 months when stored in the original sealed packing in dry place.
Application Data	
Application Temperature Range	(+5°C)-(+35°C)
Mixing Ratio	10 kg gypsum, between for 6,5 - 7-liter water
Setting Time	120 minutes *
Application Time	60 minutes
Consumption (average)	25 m2 per 25kg bag at 1mm thickness
Drying Time	Max. 4 days
Performance Data	
Compressive Strength after 28 days	Min 2,5 N/mm2
Flexural Strength after 28 days	Min 1,0 N/mm2
Heat Conductivity	0,30 w/mk (0,26 kcal/mh0c)
Surface hardness)	40 Shore D)
Water Absorption	32% of weight
Dangerous Substances	Complies
Reaction to Fire	A1

*The indicated setting periods may vary at a rate of +/- 10 % depending on the application and seasonal conditions.

General Tile Application Information

In order to get a long life and proper ceramic coating, checking and making the necessary corrections of the surface are very important factors. The required checking and corrections vary according to whether the surface is a new or an old one. Meanwhile, taking the environmental conditions into consideration is a must.

Environmental Conditions

Because of the seasonal or geographical characteristics, the environmental conditions may change, for example very cold and hot temperatures or being subjected to direct sunlight.

— Applications at low temperatures (lower than +5°C) have drawbacks. In order to start with the application, it is necessary to wait until this temperature is reached. This temperature is the lowest one at which the cement-based mortars can get the necessary setting.
— Applications at very hot temperatures (higher than) have also drawbacks. In this case, the dropping of the temperature into the proper range (between +5°C and +35°C) is required. Minimally, the surface and the ceramics must be moistened for decreasing the adverse effect of the high temperature.
— For the applications under wind and direct sunlight, efficiency diminishes due to decrease of working time. If the application is necessary, either dampen the surface. In addition, application of the mortar to the surface with shorter periods or buttering method is recommended.

Surface Examination and Surface Preparation

— New Surfaces: The surface (like concrete, plaster and screed) should be strong and of 3-4 week cured. Residues like shuttering lupe that may affect adhesion should be removed and irregular, uneven areas should be flattened with SIMENTEK SGP500 repair mortar.
— Old Surfaces: The strength of the surfaces should be carefully examined without considering how well the holding power of the new adhesive is. The concrete surface must be checked in certain intervals with a hammer, nail or chisel and if it is easy the present concrete must be scraped out until the strong surface is reached, any cracks or holes has to be filled with SIMENTEK SGP500 and flattened. When making the surface correction at the uneven sections of the floor, correct the local disorders with SIMENTEK SGP500 repairing mortar. The paint, mortar, oil and dirt on the surface should completely be removed because they have negative effects on adhesion.
— Absorbent Surfaces: The surfaces with high water absorbency (plaster block, plaster plate, gas concrete, wood etc) must be wetted with water.
— Ceramic coated surfaces: In case ceramic re-coating on ceramic coated surface, check present coating with a hammer first. If there is weak, hardly stuck ceramics either re-fix them or remove them and fill the gaps with SIMENTEK SGP500 repairing mortars. For this application, the selection of the adhesive mortar is important.
— Painted Surfaces: Before any application the painted surface must be checked first. If there are loose and swollen areas, then they should be scrapped out. In order to increase the holding power, scoring the surface is recommended.
— Please carefully examine the sections special application and the product leaflets.

Adhesion Methods

The three international methods are used for the applications of the adhesive mortars. The main purpose to be considered here is to cover the backside of the coating plate with the mortar completely, leaving no gaps. The notched trowel type to be used in these applications is a complementary factor.

A. Combing Method

This is a most widely used method applied in fixing of the small and medium sized coating materials in fine bed mortars.

The adhesive mortar is spread onto the surface with a plain hand trowel applying a sweet force, and then is spread with notched trowel with proper size teeth with 45-60°C handling angle.

After these operations, the coating material is fixed onto the mortar bed applying force on. Additionally, the coating material is fixed with the help of a rubber or wooden hammer in order to increase the holding power and spread of the mortar under the tile then levelled.

B. Buttering Method

This method is used in order to fix the small and the medium size coating materials in fine bed mortars. The adhesive mortar is applied as a layer onto the backside of the coating material with a plain trowel without leaving any gaps at the corners and the sides. After these operations the coating material is fixed onto the mortar bed applying force on. Additionally, the coating material is fixed with the help of a rubber or wooden hammer in order to increase the holding power and spread of the mortar under the tile then levelled.

C. Combined Method

This method is the one used in medium bed mortars and should be applied in sticking of the big size coating materials and the surfaces where heavy pedestrian and load traffic exist, in cold climates and for the outer surface applications. The adhesive mortar is applied onto the surface then pulled with a notched trowel like combing method and applied onto the backside of the coating material as a thin layer like buttering method. After these operations the coating material is fixed onto the mortar bed applying force on.

Additionally, the coating material is fixed with the help of a rubber or wooden hammer in order to increase the holding power and spread of the mortar under the tile then levelled.

Notch Size Table

Tile Dimensions	Notch Sizes
< 5 cm	3 mm
5-10 cm	4 mm
10-20 cm	6 mm
20-40 cm	8 mm
> 40 cm	10 mm