



Technical Guide
The Extra family

BEAM Consolidated is the leading manufacturer of finishing building materials in the region. Our expertise in manufacturing is refined by years of research and development. We provide durable finishing building materials and solutions. Our manufacturing process takes place in our facilities spread across the MENA region.

With more than 50 years of experience in the industry, we refined our manufacturing methods to produce the highest quality products. Our aptitude in the sector, our technology, and our team of experts, enable us to design and manufacture efficient construction products, systems, and solutions.

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ABOUT EXTRAFILL™

ExtraFill™ is a multi-purpose dry-mixed gypsum powder used for jointing and skimming gypsum boards all while smoothing them to perfection without shrinkage.

ExtraFill™ is most suitable for a high-quality finishing of interior drywall applications.

FEATURES

- Low shrinkage
- High strength
- Consistent setting time
- Smooth and high-quality finishing
- Easy application



Smooth finishing



Low shrinkage



Eco-friendly



No cracking

METHOD OF USE



0.60 - 0.65L of clean water



1Kg of Extrafill™



Manual or mechanical mixer

PREPARATION

- Add approximately 55 to 60 % of water by bag. Use clean water; the presence of organic substances or high concentration of sulfate will reduce the setting time and the quality of the mixture.
- Add ExtraFill™ gradually to the entire surface of the water then leave it for 2 mins till it soaks completely.

MIXING

- Stir the mix in all directions until it becomes a homogeneous putty with a consistency ready for the application.
- For mechanical mixing use a three blade mixer with a blade diameter of 1/4 to 1/3 x height of the mixing bucket, at low speed. Avoid high speed mixing since it produces a non- homogenous and low-quality mixture.
- Mixing time should not be less than 1 minute. Note that the initial setting time is 120 mins. The final setting is reached two days later depending on the surface conditions, thickness, and weather conditions.
- The ambient temperature should not be less than 5 °C.

PROPERTIES

PHYSICAL APPEARANCE	PACKAGING	WATER REQUIREMENT	STANDARD
White Powder	12 kg bags	Mix 7.2 liters of clean water with a 12 kg bag (water to gypsum ration 0.6 %).	EN 13963:2014 (type 3B with normal setting time 60:180 min)
	Available in pallets of 125 bags	Additional water can increase shrinkage.	ASTM C475 ISO 9001:2015

PHYSICAL SPECIFICATIONS

SPECIFICATIONS	UNIT	VALUE
Water ratio	%	55-60
Application thickness	mm	1 _ 3
Cracks in 50 mm zone	-	No cracks
Shrinkage	%	6 to 7
Setting Time	mins	90-180
pH	-	11.5-12.5
Wet density	g/cm³	1.5-1.7
Viscosity	cps	80000-120000
Particle size distribution	200 µm sieve	≤ 1%
Adhesive strength	N/mm²	≥ 0.56
Flexural strength	N/mm²	≥ 1.2



Finishing Tape

Fiberglass Mesh Tape



Used for drywall jointing and repairing cracks, holes, or damaged areas.

Weight: 8x8/inch, 60g/m²
9x9/inch, 65g/m²

Width: 50mm

Length: 90m

Material: White fiberglass

Standard: ASTM C475

Joint Paper Tape



Used in drywall systems to reinforce jointing and corners between boards, and to resist stretches and cracks. Made of fibers characterized by high strength and tear resistance.

Width: 50mm

Length: 75, 150mm

Material: Ivory high flexibility paper.

Standard: ASTM C475

Metal Corner Tape



Made of a strong paper joint tape reinforced by two parallel corrosion resistant metal strips. Applied in archways, curvatures, and interior and exterior corners.

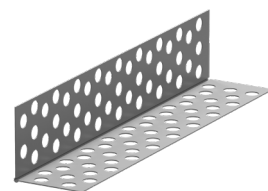
Width: 50mm

Length: 30m

Material: High flexibility paper with galvanized steel strip

Standard: ASTM C475

Tools



Perforated Corner Bead
Used for all external corner reinforcements.

Thickness = 0.4 mm

Length = 3000 mm



Hand Sander
Used to sand the boards.



Spatula
Used to apply joint compounds and sealants.



Corner Tool
Used for jointing corner treatment.



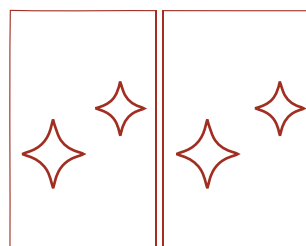
DRYWALL JOINT TREATMENT

First layer



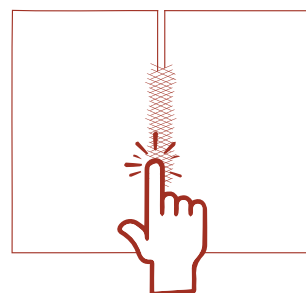
Step 1

Slightly add water to the joint compound for easier application.



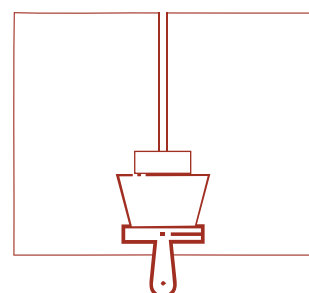
Step 2

Clean the surfaces from dust and other impurities.



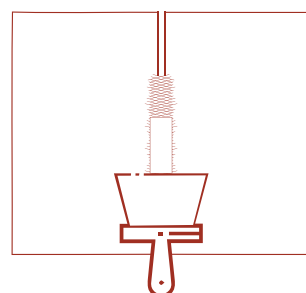
Step 3

Apply the fiber mesh tape along the joints.



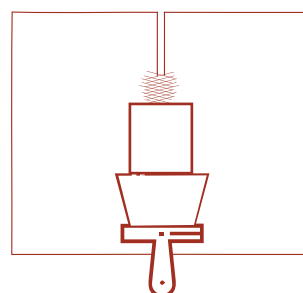
Step 4

Apply the first layer of Extrafill™ with a width of 100mm using a finishing knife.



Step 5

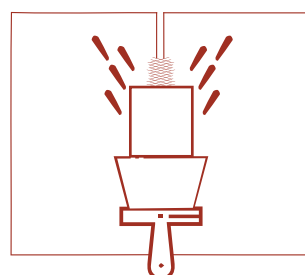
Slightly press the knife along Extrafill™ length to provide an even distribution of compound.



Step 6

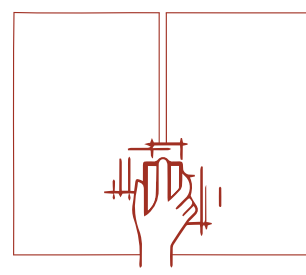
Wait for two hours then sand the excess Extrafill™ if needed.

Second layer



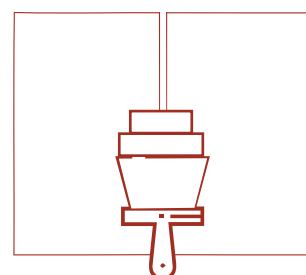
Step 1

Scrape off any bumps, ridges and other imperfections once the first layer is dried using a knife. Drying time may vary, depending on temperature, humidity, and jobsite conditions.



Step 2

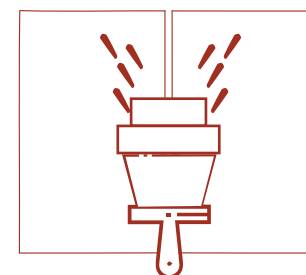
Sand the joint using sanding paper.



Step 3

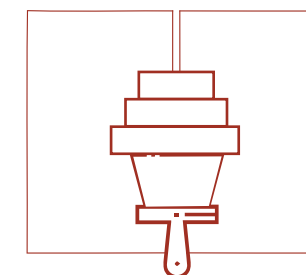
Apply a second coat of Extrafill™ with a width of 200mm.

Third layer



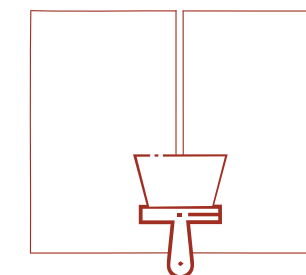
Step 1

Scrape off any bumps, ridges and other imperfections once the second layer is dried using a knife. Drying time may vary, depending on temperature, humidity, and jobsite conditions.



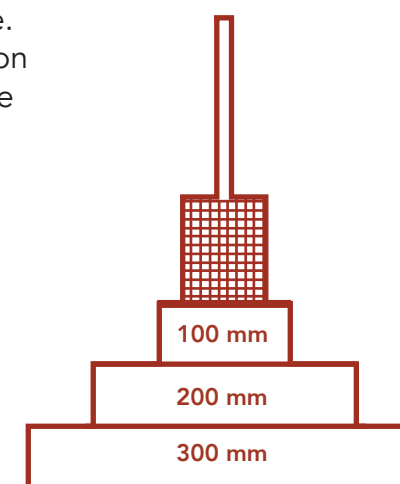
Step 2

Apply a third layer with a width of 300mm.

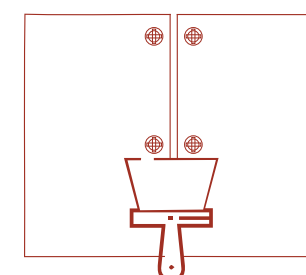


Step 3

Fill the depressions using Extrafill™ by pressing the knife firmly without adding to the existing thickness. Feather the edges beyond the second coat.

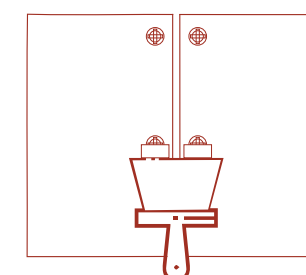


Fastener treatment



Step 1

Apply Extrafill™ to the screw heads to fill the depressions.



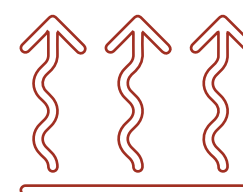
Step 2

Cover the head of the screws using Extrafill™.



Step 3

Scrape the excess compound uprights, using a knife, to level Extrafill™ with the surface of the panel.



Step 4

Leave the compound to dry.

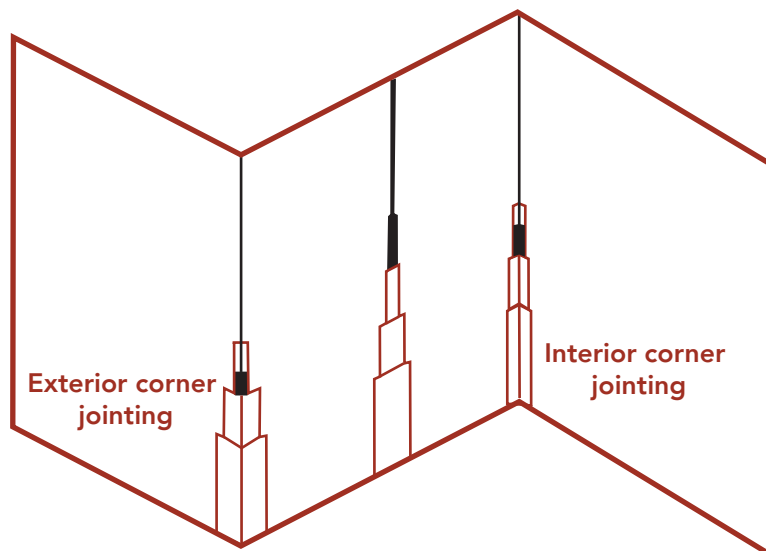
CORNER JOINT TREATMENT

Exterior corner

- Step 1** Place Extrafill™ on the edge of the corner with a width of 50mm from each side.
- Step 2** Fix the perforated angle bead on the layers of Extrafill™ and press it until the compound comes out from the holes.
- Step 3** Level the surface of Extrafill™ and the board.
- Step 4** After the compound is dried, apply a second layer having a width of 75mm from each side.
- Step 5** Apply a thin third layer having a width of 100mm from each side.
- Step 6** Soften the surface by using an external trowel tool and prepare it for finishing work after the compound dries.

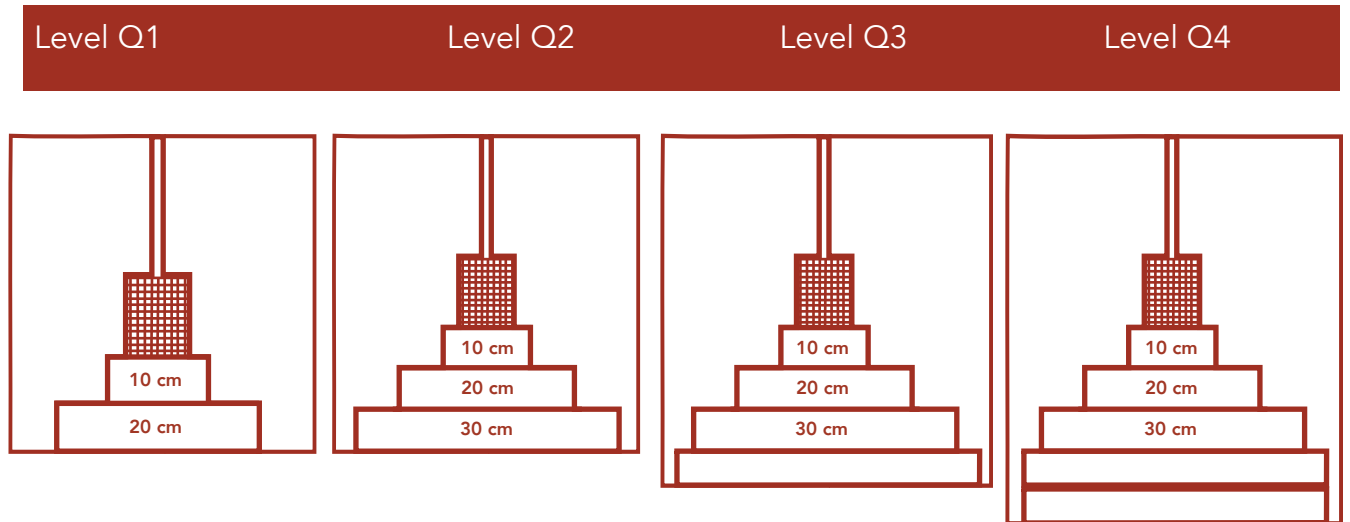
Interior corner

- Step 1** Place Extrafill™ on the corner with a width of 50mm from each side.
- Step 2** Fold the metal tape from the middle then, stick it on the inside corner of the first layer.
- Step 3** Apply a second layer having a width of 150mm for each side using a trowel tool.
- Step 4** Apply a thin third layer having a width of 200mm.
- Step 5** Soften the surface tool and prepare it for finishing work after the compound dries.



Surface finishing

When considering the jointing of plasterboards, four quality levels are possible. Apply one layer of mesh tape to all levels. The quality of the surface depends on the number of layers of Extrafill™. These finishes are determined based on several factors, mainly the application of gypsum partitions or ceilings and aesthetics desired.



Skimming

- Step 1** Use a primer to increase adhesion between the surface and the skimming layer using ExtraFill™.
- Step 2** Sand the skimmed surface to remove any excess material after 24 hours.
- Step 3** Apply a final thin layer of ExtraFill™ on the entire surface with a thickness between 3 and 4mm.

Crack reparation

- Step 1** Apply the mesh tape on the cracked areas.
- Step 2** Apply ExtraFill™ on the mesh tape and make sure that it's well embedded.
- Step 3** Sand the area to remove material excess once everything is dried out.
- Step 4** Paint over if necessary.

ABOUT EXTRAPLUS™

Extraplus™ is a high-quality smooth putty to be used internally as a plastering base. It is used to smooth extremely rough cement surfaces.

FEATURES

- Excellent bonding
- Low shrinkage
- Crack free.
- Strong hardness
- High adhesion
- Compatible to most types of paints
- No welds produced

APPLICATIONS

- Dry areas
- Rough surfaces
- Indoor and outdoor applications



METHOD OF USE



0.60 - 0.65L of clean water



1Kg of Extraplus™



Manual or mechanical mixer

PREPARATION

- Add approximately 55 to 60 % of water by bag. Use clean water; the presence of organic substances or high concentration of sulfate will reduce the setting time and the quality of the mixture.
- Add Extraplus™ gradually to the entire surface of the water then leave it for 2 mins till it soaks completely.

MIXING

- Stir the mix in all directions until it becomes a homogeneous putty with a consistency ready for the application.
- For mechanical mixing use a three blade mixer with a blade diameter of 1/4 to 1/3 x height of the mixing bucket, at low speed. Avoid high speed mixing since it produces a non- homogenous and low-quality mixture.
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PROPERTIES

PHYSICAL APPEARANCE	PACKAGING	WATER REQUIREMENT	STANDARD
White Powder	12 kg bags	Mix 7.2 liters of clean water with a 12 kg bag (water to gypsum ration 0.6 %).	EN 13963:2014 (type 3B with normal setting time 60:180 min)
	Available in pallets of 125 bags	Additional water can increase shrinkage.	ASTM C475 ISO 9001:2015

PHYSICAL SPECIFICATIONS

SPECIFICATIONS	UNIT	VALUE
Water ratio	%	60-65
Application thickness	mm	1 - 3
Cracks in 50 mm zone	-	No cracks
Shrinkage	%	6 to 7
Setting Time	mins	120-180
pH	-	11.5-12.5
Wet density	g/cm³	1.5-1.7
Viscosity	cps	80000-120000
Particle size distribution	200 µm sieve	≤ 1%
Adhesive strength	N/mm²	≥ 0.8
Flexural strength	N/mm²	≥ 2



Finishing Tape

Fiberglass Mesh Tape



Used for drywall jointing and repairing cracks, holes, or damaged areas.

Weight: 8x8/inch, 60g/m²
9x9/inch, 65g/m²

Width: 50mm

Length: 90m

Material: White fiberglass

Standard: ASTM C475

Joint Paper Tape



Used in drywall systems to reinforce jointing and corners between boards, and to resist stretches and cracks. Made of fibers characterized by high strength and tear resistance.

Width: 50mm

Length: 75, 150mm

Material: Ivory high flexibility paper.

Standard: ASTM C475

Metal Corner Tape



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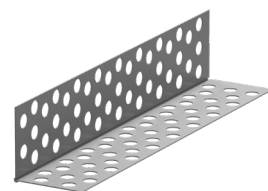
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Tools



Perforated Corner Bead
Used for all external corner reinforcements.

Thickness = 0.4 mm
Length = 3000 mm



Hand Sander
Used to sand the boards.



Spatula
Used to apply joint compounds and sealants.



Corner Tool
Used for jointing corner treatment.

APPLICATION

Skimming

- Step 1** Use a primer to increase adhesion between the surface and the skimming layer using Extraplus™.
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- Step 3** Apply a final thin layer of Extraplus™ on the entire surface with a thickness between 3 and 4mm.





ABOUT EXTRAASMANTY™

ExtraAsmanty™ is a high-quality smooth putty to be used internally and externally as a base, it is used to smooth extremely rough cement surfaces. It is ideal for external finishings due to its moisture resistant nature.

FEATURES

- Excellent bonding
- Low shrinkage
- Crack free
- Moisture resistant
- Water resistant
- Strong hardness
- High adhesion
- Compatible to most types of paints
- No welds produced



Excellent bonding



No cracking



Low shrinkage



No welds produced

APPLICATIONS

- Dry areas
- Wet areas
- Rough surfaces
- Indoor and outdoor applications

METHOD OF USE



0.30 - 0.35L of clean water



1Kg of Extraasmanty™



Mechanical mixer

PREPARATION

- Make sure the surface is clean, dry, and free from dust, grease, or any contaminating barrier.
- Clean the area and peel off the excess layers before application.
- Moisten the surface with clean water before application.

MIXING

- Pour the necessary amount of water into a clean mixing container with the help of a scale.
- Slowly add the cement putty to the water and mix it with a 400 - 600 RPM mixer for 3 to 5 minutes until a smooth, workable, stiff paste is obtained.
- Rest the paste for approximately 3 – 5 minutes and mix it again for 30 seconds. The material is now ready to use.

APPLICATION

- After preparing the substrate, apply 2 layers of cement putty using a trowel.
- Apply the second layer once the first one dries.

PHYSICAL SPECIFICATIONS

PROPERTIES	UNIT	VALUE
Thickness	mm	0.5-3
Pot Life @20-25 °C	Hours	2
Maturity Period	min	~ 5-7
Consumption	Kg/mm/m ²	1
Application Ground Temperature	°C	+5 +25
Coverage per 25 kg bags (approx.)	m ² /mm	25/1
Compressive Strength	MPa	≥ 5
Flexural Strength	MPa	≥ 2.5
Bonding strength	MPa (concrete)	≥1



TOOLS AND ACCESSORIES

Finishing Tape

Fiberglass Mesh Tape



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9x9/inch, 65g/m²

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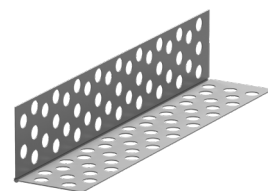
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Tools



Perforated Corner Bead
Used for all external corner reinforcements.

Thickness = 0.4 mm
Length = 3000 mm



Hand Sander
Used to sand the boards.



Spatula
Used to apply joint compounds and sealants.



Corner Tool
Used for jointing corner treatment.

RECOMMENDATIONS

- Avoid using material which was stored in open bags for a long period of time as it may contain lumps or be contaminated.
- Do not add cement, gypsum, sand, or any other materials to the product.
- It is recommended to use ExtraFill™ within 7 days from opening.

STORAGE AND HANDLING

- Store up to one year under proper conditions, above ground levels, and in a dry shaded area with a temperature below 25°.





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