



GYPROC JOINTING RANGE

RANGE OF PROFESSIONAL JOINTING AND FINISHING PRODUCTS



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Gyproc has been a market leader in the building construction space in India for the last 28 years. We offer lightweight, high performance solutions for false ceilings, drywall partitions and gypsum plastering solutions. This includes false ceilings, drywalls and gypsum plastering for all habitat spaces: homes, offices, hotels, hospitals, retail spaces, cinemas, industrial warehouses, schools, airports, metro stations and stadiums.

At Saint Gobain Gyproc India with our Pioneering expertise in Gypsum, we bring in the complete range of products and solutions for your seamless and beautiful Gypsum Ceilings/Partitions. Our products include the complete range of Jointing Materials i.e. Setting Powder, Air-Drying Powder and Wet Ready Mix along with the joint-reinforcing tapes.

Our Jointing Products are manufactured at World Class Manufacturing Units with stringent quality measures ensuring you get consistent and outstanding quality products.

The additives in Gyproc Jointing products are formulated to compensate the expansion/contraction of boards on the joints and thus prevent the cracks in the joints. The consistent setting time of Gyproc Jointing Products allow sufficient open time for application and speed up the process of jointing; also it results in to no/minimum wastage.

The Gypsum Board Jointing is an inevitable and a very imperative stage of a Gypsum Ceiling / Partition. Jointing & Finishing is the process which transforms gypsum panels into smooth, structurally sound walls & ceilings and eventually will determine the final aesthetics of them. Additional to the Aesthetics, the Jointing & Finishing will determine the acoustical and fire performance of the Gypsum Ceiling / Partition. Any Cracks / Gaps in Ceiling / Partition can result in to significant drop in the acoustical and fire performance of Gypsum Ceiling / Partition.

Though Jointing & Finishing is a very imperative stage of a Gypsum Ceiling / Partition; it is usually perceived as a process with high material costs and subject to under cutting on the proper procedures and products. This ultimately leads to undesired results of cracks or uneven finish at the joints.

As a nature Jointing & Finishing is a labor intensive process which is wrongly considered as material intensive. Labor cost constitutes approximate 60 to 70% of the total Jointing Finishing cost; whereas material cost component is only 35 to 40%. Hence one must try and improve the productivity per day so as to save on costs rather than trying to save on material by compromising by the use of Stucco/ Local POP which do not have a measured performance in terms of its ability to prevent cracks or specific drying time/ setting time.



LEVELS OF FINISHES

Traditionally, the quality of a surface is judged subjectively. Terms such as “ready-for-painting”, “ready-for-covering” and other similar phrases are not suitable for describing the level of finish. A “finished” and “ready-for-painting” surface from a contractor may be a sub-standard work for another.

This is an attempt to define finish quality of gypsum board. One has to know & consider the dimensional tolerances of boards, metal framings and level of workmanship before going for deciding the level of finish. Also one has to agree upon and check the flatness of the drywall before deciding and going for level of finish. E.g.:

LOCAL FLATNESS

A ruler of 200 mm applied on the cladding of the drywall, particularly at the joints, must not have a difference bigger than 1 mm among the most salient point and the point furthest away.

GENERAL FLATNESS

A ruler of 2000 mm length applied to the facing of the drywall and moved in all directions must not appear, among the most salient point and the point furthest away, a difference bigger than 4 mm.

It is always better to check the flatness level as per above before going for J/F of the Gypsum Boards. As Jointing-Finishing and skimming are the surface smoothing practices and not surface leveling.

While considering the jointing of Gypsum boards, we define the Jointing of Gypsum board as Q1 and Q2 and the jointing & finishing as Q3 and Q4. Q1 and Q2 are preliminary levels are actually steps towards Q3 and Q4 level of finishing:

JOINTING LEVELS		FINISHING LEVELS	
Q1	Q2	Q3	Q4
Simply filling the joints between the boards with Pro-Fill / Easi-Fill and Tape	Q1+leveling the joint to the board surface with help of Pro-Fill / Easi-Fill	Q2 + a tight coat (<1mm) over entire board surface with the Pro-Fill / Easi-Fill	Q2 + a skimming coat of Gyproc Champion Skimming Putty (>1mm) over entire board surface

Light (natural or artificial) at a shallow angle can affect the appearance of the surface. Ideally the lighting conditions expected in use should be known in advance. Flood-lighting to judge the surface quality on site is not acceptable. The limits of manual workmanship should also be borne in mind. Skimmed surfaces, which are perfectly even and free of any shadow, cannot be achieved.

SPECIFYING THE EXPECTED FINISHED SURFACE QUALITY

One has to define the expected finished surface level clearly. As explained above; terms such as “ready-for-painting”, “ready-for-covering” and other similar phrases are not suitable for describing the required quality level. To ensure the expected finish surface quality is understood by all, the specific terms Q1, Q2, Q3 or Q4 should be used throughout. If no specific quality level is set as above, then by default quality level Q2 is assumed.

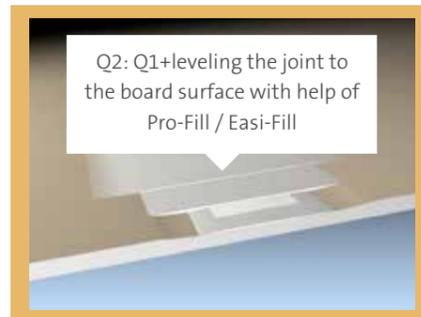
JOINTING LEVEL 1 (Q1):

- The basic filling of Gypsum board joints (Q1) : recommend for jointing of internal layer of Gypsum boards for a double layer partition
- **Jointing Level 1 includes:**
 - Filling of the joints between boards
 - Covering of screw heads
 - Basic filling includes the taping of the joint
 - Excess jointing compound should be removed. Tool marks, grooves and ridges are allowed



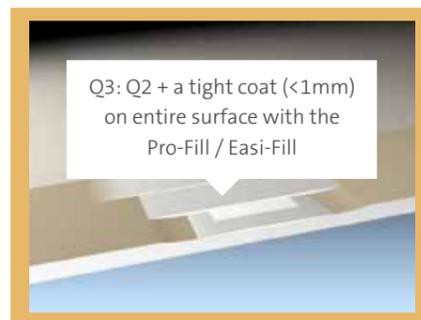
JOINTING LEVEL 2 (Q2):

- Jointing Level 2 (Q2) involves Q1+leveling the joint to the board surface with help of Pro-Fill / Easi-Fill
- Q2 fulfills the basic requirements for wall and ceiling surfaces
- The main objective is to align the joint area with a continuous transition to the board surface
- **Jointing Level 2 includes:**
 - Basic filling (Q1)
 - Finishing towards a continuous transition to the board surface, including sanding the jointed areas if necessary
 - Application marks or ridges may not be totally eliminated.
 - Jointing Level 2 finish does not eliminate physical marks/ ridges completely



FINISHING LEVEL 3 (Q3):

- **Jointing and finishing in accordance with Finishing Level 3 (Q3) includes:**
 - Jointing and finishing to Q2
 - Wider finishing of the joint (400 to 450mm) and a tight coat of Pro-Fill / Easi-Fill (< 1mm) to the entire gypsum board surface, filling the pores.
- Physical ridges and grooves are not acceptable, except the ones showing under the effect of shallow light.
- The level and extent of such marks is considerably lower than Q2.



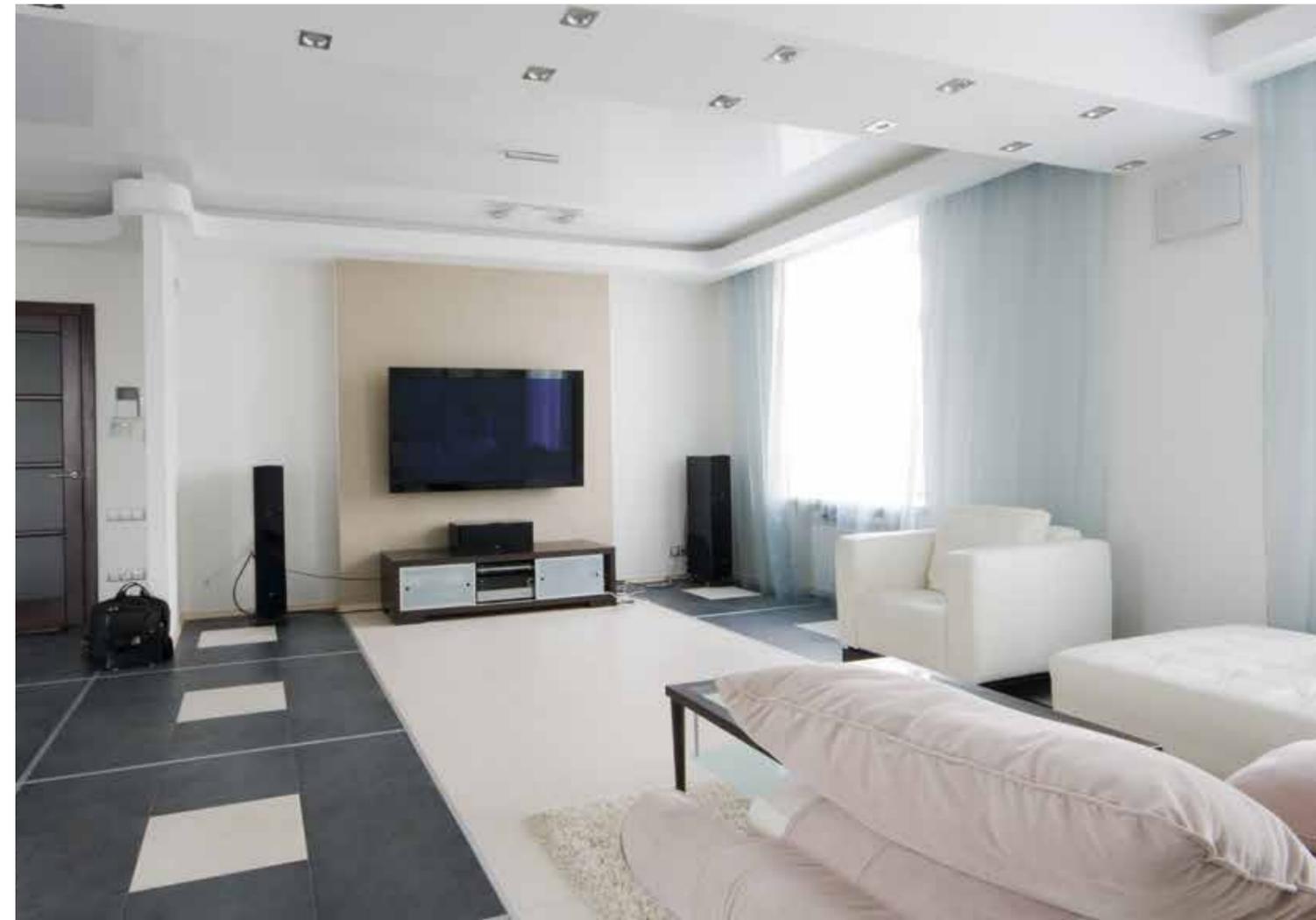
FINISHING LEVEL 4 (Q4):

- High-end drywall surface where the entire drywall surface must be fully covered with a layer of a skimming plaster. (thickness > 1mm)
- Quality Level 4 includes:
 - Jointing and finishing to Q2 plus
 - Complete surface covering of Gyproc Champion Skimming Putty (thickness > 1 mm)
- The undesirable effects of shallow lighting are reduced large extent; however some arising out of natural lighting may be acceptable under the limits of manual workmanship
- Depending on the site it is recommended to carry out a trial/test area of Q4 surface of sufficient size under final lighting conditions. This job would normally be ordered separately by the client.



SKIMMING (Q4 FINISH) SOLUTION FROM SAINT GOBAIN GYPROC INDIA:

Gyproc Champion Skimming Putty when used as per guidelines and standard application procedures from Gyproc will give you the perfect Q4 finish, which will have minimum of any marks or traces on the drywall surface and in the joints. The undesirable effects of shallow lighting on the appearance of the finished surface will also be minimized.



GUIDE TO JOINTING PRODUCTS

The tradition of Gypsum board jointing has been around for as long as Gypsum board itself; and just as Gypsum boards has developed so has Jointing Changes in techniques and advances in product formulations have improved the process. Gyproc India has been consistent in bringing you developments and launching new products to make your job easier.

Gyproc brings you a jointing range that consists of setting, air-drying and Ready-Mix jointing compounds.



SETTING PRODUCTS

Gypsum base powdered jointing compound with a setting time of 60 to 120 Minutes

FEATURES:

- Fast setting
- Quick Jointing
- Minimum or No shrinkage
- Increased crack resistance
- Cost effective Jointing

AIR-DRYING PRODUCTS

Polymer base powdered jointing product

FEATURES:

- Air drying – Drying time depends on temperature & humidity
- Excellent workability
- Minimum shrinkage
- Excellent bond strength and higher crack resistance
- Zero or minimum wastage

GYPROC PRO-TOP WET READY-MIX JOINTING COMPOUND ALL PURPOSE

Polymer base ready to work product

FEATURES:

- Ready to work
- Air drying – Drying time depends on temperature & humidity
- Excellent workability
- Very smooth finish
- Zero or No wastage and reuse of bucket

PRODUCT SELECTION

Product Name	Product Type	Application Recommendation			
		Bedding Tape	Filling Coat	Finishing Coat	Repair
Gyproc Easi-Fill®	Setting Powder	●	●	●	●
Gyproc Pro-Fill®	Air-Drying Powder	●	●	●	●
Gyproc Pro-Top®	Air-Drying Ready Mix	●	●	●	●

● Highly Recommended ● Recommended ● Can be Used ● Not Recommended

SELECTING THE CORRECT PRODUCT FOR AN APPLICATION CAN SAVE YOUR TIME AND MONEY WHILE JOINTING GYPSUM BOARDS

- For filling joints and bedding tapes, a product which 'fills' the gap and dries quickly is required, so that further processes can be done immediately. Easi-Fill® is recommended for its quick-setting nature
- Easi-Fill® can be used for the second coat too, depending on the finish desired
- An air-drying product is required for the finishing coat. Use Pro-Fill® or Pro-Top® Ready Mix Jointing Compound for an excellent finish of the joint
- Easi-Fill® is recommended for repairing joints and treating drilled holes for utilities
- Gyproc Joint Paper Tape is recommended for the best crack-resistance performance and fire-rated partitions and ceilings
- Gyproc Drywall Joint Tape (Fibre Tape) is recommended for quick jointing of Gypsum boards



GYPROC JOINTING TAPE

Tapes are important components for reinforcement of joints. Gyproc offer two types of Jointing Tapes;

GYPROC JOINT PAPER TAPE

Paper tape with center crease, chamfered edge and spark perforation, for easy use in internal angle joints. Provides excellent crack-resistance, designed for reinforcement flat joints and internal angels manually. Also used for joint reinforcement plaster finishes to Gypsum board



Length	Width
90 metre roll	50mm

GYPROC DRYWALL JOINT TAPE (FIBRE TAPE)

Self-adhesive fibre tape. Eliminate blisters and bubbles. Can be effectively used for quick jointing of Gypsum boards



Length	Width
90 metre roll	50mm



JOINTING COMPOUNDS

Gyproc Pro-Fill®

- Air-drying powder for jointing finishing
- Increased crack resistance
- Zero or Minimum Wastage
- Easy to apply

Hand applied, or for all application stages with the mechanical jointing system



Packaging	Size
HDPE Bag	25 kg & 10 Kg

Gyproc Easi-Fill 90®

- Setting powder for jointing finishing
- Easy to mix, apply and sand
- Faster work
- Increased crack resistance
- Setting time is 90 to 120 Minutes



Packaging	Size
HDPE Bag	20 kg & 10 Kg

Gyproc Easi-Fill TG 60®

- Setting powder for jointing finishing
- Easy to mix, apply and sand
- Faster work
- Increased crack resistance
- Setting time is 60 Minutes



Packaging	Size
HDPE Bag	20 kg

Gyproc Pro-Top WRM JC All Purpose

- Ready to work
- Air drying – Drying time depends on temperature & humidity
- Easy to apply and sand
- Increased crack resistance
- Zero or no wastage



Packaging	Size
Bucket	5kg, 20kg, 30 Kg

PROCESS FOR JOINTING & FINISHING

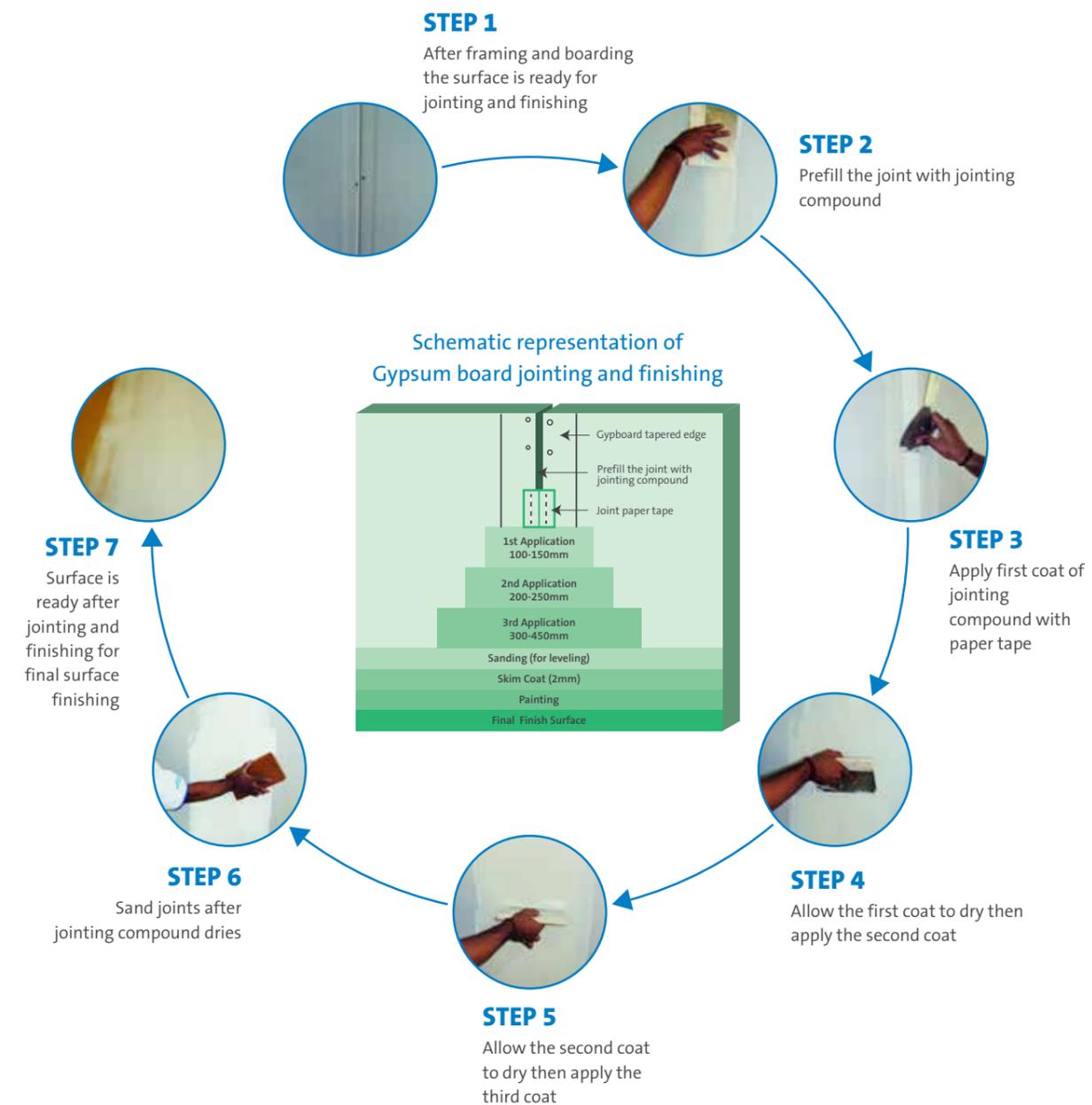
Surface Preparation:

- Ensure that all fixings, screws or nails, are seated below the surface of the Gypsum board
- Remove any dust or loose material from the Gypsum board

Mixing:

- Mix Gyproc Easi-Fill®/Pro-Fill® with the clean water in the ratio of 2:1 to make a uniform paste. Continue the mixing for 10 – 15 minutes to form a homogeneous mix.
- Ensure that no unmixed powder / lumps remain in the mixed material.

JOINTING AND FINISHING PROCESS STEPS



First Coat

- Using an applicator / Trowel, fill the recess formed by the edges of the sheets with Gyproc Easi-Fill®/Pro-Fill®.
- Centre the paper tape along the joint and using a Taping knife / Trowel press the tape down into the Easi-Fill®/Pro-Fill® ensuring no air bubble remain behind the tape.
- Immediately apply a thin coat of Easi-Fill®/Pro-Fill® over the surface of the tape (100-150 mm wide).
- Allow it to dry.

Second Coat

- Apply a second coat of Gyproc Easi-Fill®/Pro-Fill® with an Applicator / Trowel.
- Ensure that this coat extends outside the area of the first coat (200-250 mm wide).
- Allow to thoroughly dry and scrape back any buildup of compound along the joint.

Third Coat

- Apply a finishing coat of Gyproc Easi-Fill®/Pro-Fill®/Pro-Top® with an Applicator / Trowel.
- Joint edges should be feathered at least 50 mm beyond the edges of the previous coat.
- Allow to dry. Lightly sand in the same direction as the joint using finer sandpaper.



TREATMENT OF:

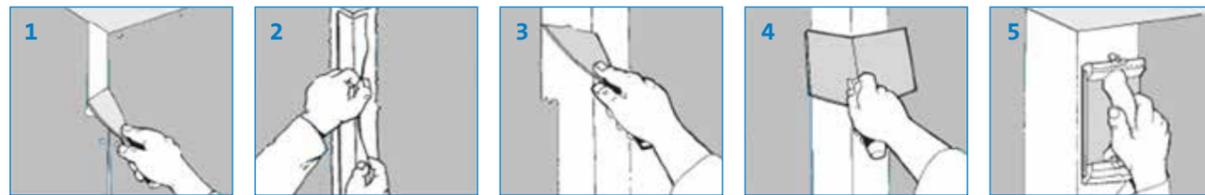
1. End Joints, Cut Edges & Square Edge Joints

When jointing two cut edges or sheet ends, which are not recessed, care needs to be taken to ensure the surface buildup of jointing material is minimized. The same basic procedure for tapered edges joints are to be followed as required for the tapered edge method. Take extra care when bedding in the tape to ensure that sufficient jointing material remains behind the tape. The absence of a recess can often lead to the entire jointing material being forced out from behind the tape.

2. Corners and Angles

1.1 Internal Corners

Gyproc Pro-Fill in conjunction with paper tape should be used.



1 Using applicator apply Pro-Fill on Both sides

2 Cut the paper tape to length; Fold the tape along the crease & embed the tape into Pro-Fill

3 Apply thin coat of Pro-Fill over the top

4 Apply subsequent coats of Pro-Fill

5 Finely sand with finer sand paper

3.2 External Corners

External corners can be finished with metal trims. Angle Beads are available for protecting external angles. Trims are attached over the corner and then covered with jointing material. Because of the thickness of plaster involved in covering these trims, pre-mixed jointing materials must not be used for the first two coats.

Installing Angle Bead

1. Mechanically fix at 100mm centers on alternate sides of the corner (fixings should also be placed on both sides at each end of the trim).
2. Using a Taping-knife or trowel apply a first coat of jointing material.
3. When hard, lightly scrape back using a Taping Knife or the edge of a trowel.
4. Apply a second coat of jointing material using a trowel. When hard, lightly scrape back.
5. Apply a third coat of jointing material using a trowel and leave to dry.
6. When thoroughly dry, lightly sand in the direction of the joint with finer sandpaper, taking care not to scuff surface paper of the Gypsum board

DO'S AND DON'TS OF JOINTING & FINISHING:

- Only use Gyproc branded Jointing & finishing products
- Correct mixing of product is essential
- Do not use contaminated water, buckets, tools etc.
- Ensure ambient temperatures are within limits
- Be aware of background suction, adjusting mix and application as necessary
- Ensure a suitable key is in place – e.g. background should be bare and not pre-treated with sealer / paint etc.
- Allow sufficient drying between coats
- Do not add any additives on-site to Gyproc Jointing Products
- Use the product within the recommended working time
- Ensure the product is 'in-date'

COMMONLY FACED CHALLENGES IN JOINTING & FINISHING

1. Wastage / High material costs:

The non-defined setting time of Stucco/local POP often leads in situation where the mix sets and become unsuitable for Jointing before the process is completed and results in very high wastage of the material which can be in the tunes for 30%.

The consistent setting time of Gyproc Jointing Products allow sufficient open time for application and speed up the process of jointing also it results in to no/minimum wastage.



2. Speed & Efficiency:

The non-defined setting time of Stucco/local POP requires the material to be mixed in small quantities and more efforts for finishing; resulting in lower speed & efficiency of jointing & finishing.

The consistent setting time of Gyproc Jointing Products allow sufficient working time for application and speeds up to process by at least 50%

3. Cracks / Undulations & Rework:

Lack of crack resisting additives can result in to cracks after Jointing & Finishing with Stucco / POP; also poor workability can result in to undulations; both these result in to frequent "Rework" at the sites

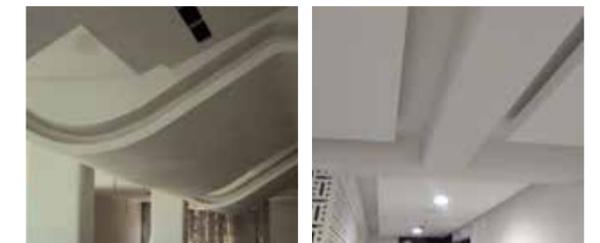
As being formulated with crack resistant additives, Gyproc Jointing Products give minimum / No cracks after Jointing & Finishing.

Also the excellent workability will result in to excellent finish of the board and reducing the re-work.



Undulations

Crack



Seamless Finish

Crack - Free Surface