



power *Grace*

BONDING SOLUTIONS

**HIGH STRENGTH, SHOCK & WEATHER RESISTANT
TILE & STONE INSTALLATION SYSTEMS**

NOTE : THE INFORMATION GIVEN IN THIS CATALOGUE IS FOR GENERAL GUIDANCE. HOWEVER, COMPANY IS NOT RESPONSIBLE FOR ANY IMPROPER APPLICATION OF THE PRODUCT.

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AVAILABLE AT :



Adhesives | Power Grouts | Poxy Grouts | Grout Plus | Power Mastic
Tiles Spacer | Wall Care Putty | Liquid Water Proofing | SBR Latex
Power Grace Primer | Marble Cleaner (Multipurpose) | Power Marmo Bond
Power Ready Mix Plaster | Power Block Jointing Mortar | Tiles Cleaner

ISO 9001:2008 CERTIFIED

power *Grace*

BONDING SOLUTIONS

Armed with in-depth experience in the tile and marble industry, Power grace brand provides a complete range of tiles & stone bonding solution. we also offer tile installation as a service under this division.

WHY CONSTRUCTION CHEMICAL?

Construction chemical is used to solve a specific problem related to construction:

- ✔ Increase the speed of construction
- ✔ Improves the longevity
- ✔ Improves the ease of construction
- ✔ Improves the load bearing capacity
 - Chemical Load
 - Abrasion Load
 - Mechanical
 - Environment

INTERIOR • EXTERIOR • COMMERCIAL • RESIDENTIAL • INDUSTRIAL

Adhesives | Power Grouts | Poxy Grouts | Grout Plus | Power Mastic
 Tiles Spacer | Wall Care Putty | Liquid Water Proofing | SBR Latex
 Power Grace Primer | Marble Cleaner (Multipurpose) | Power Marmo Bond
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POWER GRACE - ADHESIVES (Floor and Wall Thin & Thick Bed Adhesives)

➤ **Thin - Bed Fixing**

A process of tile fixing into a bed of an adhesive not exceeding 3 mm in final bed thickness.

➤ **Thick - Bed Fixing**

A process of tile fixing into a bed of an adhesive not less than 3 mm and not exceeding 12 mm in thickness.

PG-150-Type - I

➤ **Description :**

PG-150 Adhesive is a bagged cementitious powder to be mixed with water for installing ceramic tile and natural stone.

➤ **Applications:**

Can be used preferably for floors over concrete and mortar beds.

➤ **Advantages:**

- Single component, ready to use
- Adequate performance

➤ **Packaging :** 20 kg. / 30 kg.

➤ **Coverage:**

Approximately 3 to 12 kg/m², depending on the size of tiles (using notched trowel having 5 to 15 mm square grooves)

➤ **Colour:** Grey



20 kg.

30 kg.

PG-250-Type - I

➤ **Description :**

PG-250 Adhesive is a bagged cementitious powder to be mixed with water for installing ceramic tile and natural stone.

➤ **Applications:**

Can be used for interior applications, on floors and walls, over masonry, concrete, mortar beds and cement plaster.

➤ **Advantages:**

- Single component, ready to use
- Proven performance

➤ **Packaging :** 20 kg. / 30 kg.

➤ **Coverage:**

Approximately 3 to 12 kg/m², depending on the size of tiles (using notched trowel having 5 to 15 mm square grooves)

➤ **Colour:** Grey



20 kg.

30 kg.

PG-400 - Type - II

➤ **Description :**

The ultimate one step, polymer fortified, mortar for interior and exterior installation of ceramic/vitrified tile & stone quarry tile, pavers and brick. PG-400 is designed to just mix with water, has a long open time with unsurpassed adhesion and workability.

➤ **Applications:**

Excellent for facades & underwater applications, for all ceramic tile, vitrified tile and stone installations, for both interior and exterior applications.

➤ **Advantages :**

- Single component, just add water
- Long open time with unsurpassed adhesion and workability
- Exceeds Shear Bond Strength Requirements as per IS 15477:2004 Type-I
- Superior adhesion for porcelain and vitrified tiles
- Bonds to various substrates
- High Shear Bond Strength
- Water-resistant
- Shock-resistant

➤ **Packaging :** 20 kg. / 30 kg.

➤ **Coverage:**

Approximately 3 to 12 kg/m², depending on the size of tiles (using notched trowel having 5 to 15 mm square grooves)

➤ **Colour:** Grey



20 kg.

30 kg.

PG-W-400 -Type - II

➤ **Description :**

PG-W-400 is smooth & creamy, sanded adhesive for installing many types of glass tile, natural stone, composite marble stone & quartz stone.

➤ **Applications:**

Can be used for interior and exterior applications, on floors & walls, over masonry, concrete beds and cement plaster.

➤ **Advantages:**

- Single component, ready to use
- Proven performance
- White in colour, can be used for all white surface related products

➤ **Packaging :** 20 kg. / 30 kg.

➤ **Coverage:**

Approximately 3 to 12 kg/m², depending on the size of tiles (using notched trowel having 5 to 15 mm square grooves)

➤ **Colour:** White



20 kg.

30 kg.

PG-W-600-Type - II (Flexi Adhesive)

➤ **Description :**

PG-W-600 is smooth & creamy, shaded flexi adhesive for installing many types of glass tile, mosaic, natural stone, composite marble & quartz stone on vertical, horizontal surfaces. It's a highly polymer base adhesive.

➤ **Applications:**

Best Result for interior and exterior application , on floor & wall , Over Masonry, And concrete beds and cement plaster. It is used in area with higher sticks or thermal stress like fabricated ,concrete, terrace, Swimming pull facades.

➤ **Advantages:**

Best For Composite Marble & Quartz Stone And Marble Not Subject to determine or stained due to water absorption substrates up to 15 mm thickness.

➤ **Packaging :** 20 kg. / 30 kg.

➤ **Coverage:**

Approximately 3 to 12 kg/m², depending on the size of tiles (using notched trowel having 5 to 15 mm square grooves)

➤ **Colour:** White



20 kg.

30 kg.

POWER GRACE - ADHESIVES - Method Of Applications Of Adhesives

(i) Surface Preparation :

- Surface must be properly cleaned, free from grease, oil and dust.
- Surface must be sufficient flat to permit the specified flatness of finished tiling.
- Not recommended to use on wood, metal, paint and fully glazed backgrounds.

(ii) Application Procedure:

- Add adhesive to clean water @ 1.4 kg. water per 5 kg adhesive and mix until a smooth lumps free consistency is produced. Avoid excess water.
- After mixing, spread the adhesive paste on the background immediately with notched trowel.
- Spread moderate quantity of adhesive mix which can be utilized for fixing tiles within 20/30 minutes, depending on open time for type-I and type-II adhesive.
- Push tile firmly on the background ensuring that good contact is maintained with the back of each tile.
- Allow adhesive to dry before grouting.

(iii) Precautions:

- The bedding layer should be in line and level with Plain Cement Concrete / Cement-Sand Mortar.
- The vertical plastered surface of wall should not be roughened with wire brush and it should be perfectly straight with maximum ovality not exceeding 2 - 3 mm.
- To ensure zero-zero surfacing of plaster on wall, failing which, the tile being fixed may not be in contact with wall uniformly at all points and due to too much variation in atmospheric temperatures of day and night, the tile will start getting slowly separated from wall resulting in its falling down.
- Never to lay tile without leaving grooves. If no grooves left, the tile fitted on wall is supported only on its back side, but in case of grooves provided, the grout supports the tile on its four edges.
- To ensure proper application of the Notched Trowel i.e. to apply trowel preferably at right angle.
- To ensure proper pressing with wooden hammer
- To ensure immediate cleaning of edges of tile after pressing.
- Grouting to be done up to whole depth after proper hardening of adhesives.
- Finally, to smoothen grout filled in joints with a half cut PVC pipe by pressing and simultaneously moving it after wetting in water.
- Always to adopt procedure of applying adhesives by spreading on wall / bedding layer only and never on back of tiles

Application procedure



STEP 1 : TAKE WATER



STEP 2 : TAKE ADHESIVE



STEP 3 : MIX THOROUGHLY
REST OF 15 MINUTES



STEP 4 : APPLY ADHESIVE



STEP 5 : FIX TILES

POWER GRACE ADHESIVES	CEMENT / SAND (TRADITIONAL)
■ Strong Bond - Four Times Cement/sand	Weak Bond
■ Faster Fixing Rate - Four Times Cement/sand	Slow Fixing Rate
■ Tiles are Fixed Dry, Directly & No Soaking - No Mess	Tiles Need Soaking - Messy
■ Thick Bed Of 6-12 mm - Reduces Weight Of The Structure	Thick Bed Of 15-40 mm - Adds to weight / thickness
■ Flexible, Anti-shrink Properties - Allows Physical, Thermal & Moisture Movement	Rigid And Shrinks - cracks due to physical, thermal & moisture movement
■ Universal Use - adhesive range strongly bonds to all materials (tiles, stones) and backgrounds	Limited Use - weak or no bond to some materials and backgrounds
■ Initial Set 20 Minutes, Curing In 24 Hours	Curing Required
■ Very Durable Bond	Adhesion Can Lessen
■ Resistant To Stain Seepage & Discolorations	Stains, Seepage & White Discolorations Is Possible
■ Good Workability / Application - Thick / Sticky-good 'grab' , Non-slip-good Water Retention-Long Open Time-easy to Use and Apply	Poor Workability / Application - Thin / Runny-no 'grab' , High Slip-poor Water Retention-Short Open Time-hard to Use and Apply
■ Good, Consistent, Finish Quality	Variable Finish Quality
■ Consistent, Quality Product - Easy To Mix	Variable Materials - Poor Mixing Control
■ Durability Ensured	No Warranty
■ 100% Bonding Between Granite & Background Surface	Hollowness Behind Granite & Background Surface
■ Water Resistant	Not Water Resistant

POWER GROUT

- **Description :**
Power Grouts are made of blended Portland cement, graded aggregates, fortifiers and colour-fast pigments. They are mixed with water to provide a tile joint that is strong, hard, durable & colour fast.
- Designed for joint width 1mm to 5mm, for Porous & Absorbent type tiles, non-vitreous clay tiles, marble & glazed wall tiles.
 - It is available in 1 kg, 20 kg pack.

- **Applications:**
Residential, commercial & external facades

- **Advantages:**
- Colour - fast / Easy maintenance
 - Non-shrinking
 - Non-cracking
 - Easy application and clean up
 - Weather resistant

- **Method of Application :**
- Tile joint must be clean, free from any dust or other contaminates.
 - Fill the joints minimum 24 hours from tile fixed with PG-250/400/W-400.
 - Clean the joints with dry cotton cloth after 24 hours
 - First of all prepare a paste of Power Grout & Water (3:1 ratio).
 - Wait for ten minutes for proper chemical action.
 - Then mix it further and fill the joint properly.
 - Finally, Clean extra grout from tile surface with wet cotton cloth after 1.0 hour.

- **Coverage :** Varies with tile size and grout width
- **Color :** Available in a range of more than 22 colors



500 gm. 1 kg.



20 kg.

Application procedure



STEP 1 : TAKE WATER



STEP 2 : TAKE POWER GROUT



STEP 3 : MIX THOROUGHLY
REST OF 15 MINUTES



STEP 4 : APPLY & CLEAN
WITH WATER SOAKED
SPONGE AFTER 1 HOUR



STEP 5 : CLEAN SURFACE
AFTER 12 HOURS WITH WATER

POWER GROUT PLUS

- **Description :**
Power Grout Plus is a single component SBR based bonding agent and cement modifier. It is suitable as an admixture for obtaining waterproof concrete, plasters & mortars for various applications.

- **Area of Application:**
- It is used as an admixture for better look & smoothening the joint, filled with cement.
 - For improving tensile and shear adhesion, so as to improve the bond of vertical plaster mortar.
 - High solid white product, hence, can be used in GRC products.
 - It can be used in water content area, such as, swimming pools, fountains, dams, as well as high flexibility needed areas, such as, bridges, canals and industrial flooring areas.
 - It can be used for high bonding with glass tiles, vitrified tiles, natural stones, aluminium and other building construction products.
 - It can be applied in patch work mortar.
 - Increases flexibility & tensile strength.
 - Increases weather resistance of grout.

- **Advantages:**
- Increases durability & high bonding
 - Reduces staining.
 - It is excellent for grouting tiles with high absorptive levels
 - Increases flexibility & tensile strength.
 - Increases weather resistance of grout.

- **Recommended For:**
- Rendering with cement mortar.
 - Filling joints with cement / cement mortar.

- **Dosage / Mixing :**
- Pour 100ml of Power Grout Plus with 200ml of clean water into a clean container. Add 1 kg of cement slowly and continuously.
 - In case of cement mortar, dilute 100 ml of Power Grout Plus with 200ml of water and add to the wet mix of cement & sand. Mix until a smooth paste consistency is achieved. Apply the paste in joints, renderings and other recommended applications.

- **Shelf Life & Storage :**
- 18 months from the date of manufacturing. Store in cool & dry place in sealed condition and prevent from direct sunlight.

- **Safety Precautions :**
- Avoid contact with skin & eyes.
 - In case of contact with skin, rinse with clean water and then clean with soap water.
 - In case of contact with eyes, rinse immediately with clean water and seek medical advice.
 - Wear suitable protective clothing, gloves, eyes protective equipment during the application.



Application procedure



100 gm
1 kg.
5 kg.

POWER POXY GROUT (THREE COMPONENTS)

Description :
Power Poxy Grout is three components Epoxy based joint filler. It is easily applicable in the joints of vitrified tiles, glass mosaic tiles and other tiles. Also, it is suitable for the joints of granite, natural stone, composite marble and quartz stone. The excellent feature of Power Poxy Grout is that, it can easily be cleaned from any surface with water and scrubber/scotch brite within stipulated time.

- Advantages:**
- Easy to install and clean
 - Cleanable with water
 - Colour fast
 - Stain and bacterial resistant
 - Non cracking and powdering
 - Hard and durable joints
 - Hygienic and chemical resistant
 - Waterproof and durable finish
 - Stain free
 - Temperature resistant
 - High Strength and versatile

Area of Application :

- Power Poxy Grout is ideally suited for residential and commercial installations where the materials must resist physical abuse, stains, spillage and chemical attack.
- Power Poxy Grout is applied in grooves of tiles used in kitchens, bathrooms, swimming pools, fountains, hospitals, operation theatres, sterilization rooms, restaurants, cafeterias, light industrial applications and high traffic areas.

Method of Application :
(Please refer leaflet inserted inside packing box / bucket)

a) Ratio of Epoxy Kit:
For 1 kg. : Resin (200gm), Hardener (100gm) & Filler (700gm)
For 5 kg. : Resin (1 kg.), Hardener (500gms) & Filler (3.5kg.)

- b) Tools for Application :
- Paint Brush to clean Joints
 - Shallow Pan
 - Rubber Trowels of 4"x6" size
 - Steel Trowel
 - Scrubber / Scotch Brite
 - Soap Solution
 - Bucket full with water

Coverage :
Theoretical coverage for calculation
 $(\text{Tile Length} + \text{Tile Breadth}) \times (\text{Tile Thickness} \times \text{Joint Width} \times \text{Specific Gravity})$
.....=kg/m²
 $(\text{Tile Length} + \text{Joint Width}) \times (\text{Tile Breadth} + \text{Joint Width})$

- *Specific Gravity=1.70
- All the dimensions are in mm.

Note : It may vary with tile size, groove width and groove depth.

Colours :
Available in selected range of colours
(Light, Dark & Fluorescent- Please refer shade card)

Packing : 1 kg. & 5 kg.

Kit	1 kg.	5 kg.
Resin	200 gm	1 kg.
Hardener	100 gm	500 gm
Filler	700 gm	3.5 kg.



1 kg.



5 kg.

POWER GRACE MASTIC (Two Components)

Power grace –Mastic
Description:
Two pack mastic for marble and stone based on unsaturated polyester resins, it hardens quickly adding its hardener. It has good adhesive power, its fluidity allows penetrating in the hollowness and porosity of the stone. After hardening, it can be worked as the stone. It can be colored using paste coloring tubes and coloring oxide powders; it is resistant to the most of chemical products such as oils, fats, detergents, solvents
A premium range, Very thin, Polyester resin based glue for filling of joints, cracks & holes. Gives a very fine finish to joint & Cracks.

Application and its usage:
Mix the mastics with hardener in required proportion and apply the mixture by putty blade on the joints, cracks & holes (for colour matching mix proportionate amount of colour pigment).

- Instruction to use:**
1. The area to be glued or filled must be clean, perfectly dry and dust free.
 2. Add 2% paste hardener in weight to the mastic, mix thoroughly until a homogenous mass is obtained and apply with a spatula on horizontal or vertical surface
 3. in cold season the hardener may increase up to 3%
 4. once hardened after a couple of hours, the mastic can be grinded and polished
 5. for materials with porosity or holes very big(travertine), we suggest to make a second application

- Suggestion for use:**
1. Do not use the hardener more than 4% as it will reduce adhesion of the product, it also reduces working time and could cause a colour variation
 2. Never mix the total quantity of the mastic at one time in order to avoid, "Mass effect" because the mastic will dry quickly too
 3. Do not use hardener in quantity less than 1% and /or at low temperature below 5 °C, which catalysing time very long

Advantage
Makes applied area water proof, weather proof, flake resistant, making the joints as invisible joints.

Available in: - 2 Colors in Semi Solid & Liquid Form

Colors: - Cream, White, Transparent & Crystalline.

Packing: - 1 kg., 5 kg., 10 kg. & 25 kg. Tins

Solution for: Fill Cracks & Holes, and also Repair Joints



POWER TILES SPACER

Power Spacer
Description: - Tile Spacers are made of virgin flexible PVC .Tile spacers used for laying of ceramic ,vitrified porcelain, stone and marble in grout. The spacers are manufactured to exact dimensions for even grout lines and perfect finish. our tile spacers assure better bonding to the joint fillers and facilitates the removal and replacement of single tiles, if needed.

Packing: - 100 pcs. in one pouch

Available in: - 2mm, 3mm, 4mm, 5mm, 6mm & 7mm



POWER GRACE - WALL CARE PUTTY

A DEFINITE SOLUTION TO STRENGTHEN THE WALL & TO ENHANCE ITS BEAUTY.
THE FIRST OF ITS KIND WATER RESISTANT PUTTY

➤ **Why Power Grace Wall Care Putty?**

- To smoothen the surface.
- To fill the fine pores on the wall surface
- Firm base for subsequent paint.
- Elegant look / Aesthetic appeal.
- More coverage for subsequent costly paints.
- Protects wall

➤ **Power Grace Wall Care Putty Composition :**

- White Cement
- High Performance Specialty Chemicals
- Water retention Compounds
- Polymer based binding Compounds
- Fungicide

➤ **Method of Application :**

(i) Preparation of Surface :

- Prepare the base surface (wall), which should be plastered or made with cementitious material ensuring that surface is totally clean and moderately rough.
- Remove all the loosely adhering material with the help of sand paper, putty blade or wire brush.
- Pre-wet the surface ensuring that surface is in just wet condition prior to putty application.

(ii) Application Procedure:

- Mix Power Grace Wall Care Putty slowly in @ 40%(approx.) water by volume to prepare paste of desired consistency.
- Mix vigorously for 5-10 minutes for making uniform paste of putty.
- Mixing can be done manually or by suitable electric mixer.
- After drying (3hrs.) rub the surface with cloth and apply 2nd coat depending upon climatic conditions.

(iii) Precautions :

- The surface (wall) should be in line & level.
- Putty thickness should be < 1 mm per coat.
- Putty is for smoothening only, not for leveling.
- Prewet the surface properly before applying putty.
- Keep putty in dry place.
- Use putty within 2 hrs. of preparation.

➤ **Packaging : 20 kg & 40 kg**



Power Grace Wall Care Putty	Traditional Putty
■ Water Resistant	Does not resist water. Gets peeled off when comes in contact with Water
■ Ideal on Interior & Exterior surfaces	Cannot be applied on exteriors
■ Cement based – More adhesive strength	Oil based – less adhesive strength
■ Consistent quality	Inconsistent Quality
■ Can be applied on moist surface	Cannot be applied on moist surface
■ No need of primer coat	Primer coat is must
■ White & smooth finish	Off-white & less smooth finish
■ True shade of colours possible	True shade of colours not possible
■ Coverage – 15 to 20 Sq.ft./kg	Coverage – 10 to 12 Sq.ft./kg
■ Material Cost Rs. 1.25 to Rs. 2.25 / Sq. ft.	Rs. 1.50 to Rs. 2.50 / Sq. ft.

POWER GRACE - LIQUID WATERPROOF

➤ **Description :**

Power Grace-LW is specially formulated additive composed of cement compatible, surface active agent, polymers & additives. It is used as an additive for cement concrete/mortar/plasters. It improves the integral waterproofing properties of cement concrete & plasters after curing.

➤ **Area of Applications :**

- Waterproofing of cement-sand mortar & cement concrete used in :
- Roof Slabs & screeds
 - Basements
 - Water Tanks & Water retaining structures
 - Bathrooms Balconies
 - Sumps Drains
 - External Plastering

➤ **Method of Application:**

- Charge cement & aggregates to concrete mixer as per the mix design, mix in dry state for 2-3 minutes.
- Now start addition of 75-80% mixing water & mix for 3-4 minutes.
- Add Power Grace LW 150ml per 50 kg. of cement in water and stir gently.
- Discharge the concrete / plaster for application.
- Cure the applied mortar or concrete as per construction practices.

POWER GRACE - LIQUID WATERPROOF

➤ **Features & Benefits:**

- Compatibility - Being a liquid, easily dispersible & compatible with concrete & mortar mixes.
- Durability - Increases durability by improving integral waterproofing of concrete.
- Cohesiveness - Makes the concrete / mortar more cohesive.
- Permeability - It reduces permeability of water into concrete.
- Breathing - It retains the breathing efficiency of concrete.
- Strength - Does not affect the setting time and strength of concrete.
- Shrinkage - Reduces shrinkage crack development in plaster & concrete.
- Economics : It is an economical additive as compared to other waterproofing materials.

➤ **Precautions & Benefits :**

- Do not add Power Grace LW directly to dry cement & aggregate mix.
- Maintain water-cement ratio as low as possible.
- The dosage of Power Grace LW should be maintained as per recommendations.

➤ **Dosage :** 150ml per 50 kg bag of cement

➤ **Coverage :** As per site condition Packaging : 1 kg., 5 kg., 20 kg. & 50 kg.

➤ **Shelf Life & Storage :** 18 months from the date of manufacturing in unopened conditions.

➤ **Store in a cool & dry place.**

➤ **Safety Precautions :**

- Use rubber hand gloves & safety goggles, while using Power Grace LW.
- In case of contact with skin, wash with water.
- Keep out of reach of children.

Note : Integral waterproofing compounds for mortar and concrete shall be used in such proportions as recommended by manufacturer but not exceeding 3% by weight of cement.



1 kg.

5 kg.

Application procedure



20 kg.

POWER GRACE - SBR LATEX

➤ **Description :**

Power Grace SBR-Latex is based on Styrene Butadiene Latex. It is a ready to use bonding agent in liquid consistency. SBR Latex is used for repair of floors, columns, chhajjas, slabs, beams, and water proofing of terraces, toilets, bathrooms etc., as it bonds strongly to old and new concrete and plasters. It prevents cracking, pick up dust, improves abrasion resistance and reduces shrinkage.

➤ **Area of Application:**

- For Waterproofing of roof, terraces, floors, columns, chhajjas, slabs, beams, toilets, bathrooms, lift pits, balconies, staircases, liquid & effluent tanks, decks & walkways.
- For concrete repairs of floors, columns, beams, chhajjas, parapets, slabs etc.
- For bonding mortar for tiles and panels, as top rendering coat for chemical resistant floors.
- For bonding of old concrete to new concrete, plastering, masonry stone work etc.
- For cladding, fixing of slip bricks, stones, tiles and marble bedding.
- As bonding slurry coat for pinhole treatment on concrete surface, weatherproof & frost resistant render, high wear & erosion resistant render and as repair mortar for overhead application.

➤ **Method of Application :**

(i) **Preparation of Surface :**

- Clean the surface with scrubber or wire brush to remove dirt, loose particles, dust & laitance and de-grease the surface with the help of suitable solvent.
- Repair the spalled concrete by saw, cutting the extreme edges of the repair location to a depth of minimum 10mm, to avoid feather edging & to provide strong bond.
- Clean the concrete surface to remove the contamination, where breaking is not possible. Make the surface rough by scabbling or grit blasting.
- Remove all loose scales & corrosion deposits and clean the surface immediately.

➤ (ii) **Priming of Steel Surface :**

- For priming of steel surface, apply rust remover to the exposed reinforcement area and wash with water jet before applying primer on the rebar.
- For priming of concrete substrate, the surface should be thoroughly saturated with potable water. Remove excess of water, if any, prior to application.
- The slurry of primer coat is prepared by mixing one part of Power Grace SBR Latex, one part of water and three parts of cement. Mix the cement with binder slowly to get a smooth consistency. Mix the slurry continuously during application to avoid settlement.

➤ (iii) **Mixing :**

- The forced action mixer is essential and recommended to ensure that the Power Grace SBR Latex is thoroughly mixed. Use a suitable sized drum with heavy duty electric drill machine fitted with spiral paddle mixer at a speed of 400 to 500 rpm.
- Hand mixing is permissible only for 25 kg or less quantity.
- Charge the mixer with required quantity of dry and clean sand, cement & mix for 1 to 2 minutes and then add Power Grace SBR Latex as per the dosages recommended. Mix for 2 to 3 minutes to prevent entrapment. Keep on adding water slowly until the required consistency is achieved.



POWER GRACE - SBR LATEX

• Application :

Sr. No.	Application	Composition	Qty. of Power Grace SBR Latex	Consistency & Thickness
1.	Patching & Repair Mortar	- Cement-50 kg. - Graded Sharp & Washed Sand-150 kg. - Water-10 kg.	10 kg.	Mortar Consistency 6 to 40mm thickness
2.	Renders (Coat of Plaster)	- Cement-50 kg. - Graded Sharp & Washed Sand-150 kg. - Water-6 kg.	10 kg.	Mortar Consistency 6 to 9mm thickness
3.	Bonding Mortar for Slip Bricks & Tiles	- Cement-50 kg. - Graded Sharp & Washed Sand-150 kg. - Water-7 kg.	10 kg.	Mortar Consistency 6 to 40mm thickness
4.	Heavy Duty Floor Screed	- Cement-50 kg. - Graded Sharp & Washed Sand-75 kg. - Granite Chips (3-6mm)-75 kg. - Water-6 kg.	10 kg.	Semi Dry Cohesive Consistency 6 to 40mm thickness

Area of application



POWER GRACE - SBR LATEX

➤ Features & Benefits :

- Power Grace SBR Latex is multipurpose, easy to use and economical product.
- It prevents cracking by improving flexural strength.
- It improves erosion resistance and prevents corrosion.
- Bonds strongly to concrete, stone work, cementitious surfaces, plasters, masonry etc.
- It reduces viscosity cement injection grout for better bonding & fluidity.
- It improves abrasion resistance of the cement mix.

➤ Technical Specification :

- Colour & Appearance : White Viscous Liquid
- Density : 1.02g/cm³
- Solid Contents : 39% - 45% (140°C / 30 minute)
- Viscosity at 30°C : 25 - 65 mPaS (Brookfield RVTDV - Spindle 3 / 100 RPM)
- pH Value : 7.5 to 9.5
- Dispersion Type : Anionic
- Plasticizer Content : None
- Thinnability with water : Freely Miscible
- Resistance to Frost : Not Resistant
- Minimum film forming temperature : 16°C



20 kg.

➤ Coverage : As per site condition

➤ Dosage:

- 200gm to 1.0 kg. per 50 kg cement in 1:3 / 1:4 Cement - Sand mortar for application in leveling on terrace for waterproofing / in bedding mortar before tiling.
- 10 kg. of Power Grace SBR-Latex per 50 kg cement depending on various applications.

➤ Packaging : 250 grm, 1 kg., 5 kg., 20 kg. & 50 kg.

➤ Shelf Life & Storage :

- 18 months from the date of manufacturing . Store in cool & dry place in unopened condition and prevent from direct sunlight.

➤ Safety Precautions:

- Avoid contact with skin & eyes.
- In case of contact with skin, rinse with clean water and then clean with soap water.
- In case of contact with eyes, rinse immediately with clean water and seek medical advice.
- Wear suitable protective clothing, gloves, eyes protective equipment during the application.



250 gm.

1 kg.

5 kg.

POWER PLAST READY - MIX PLASTER

POWER PLAST READY - MIX PLASTER is manufactured in modern dry mix plant with computerized batch process. Plaster is ready to use by just mixing water at site. This process eliminates job-site mixing practices. Hence gives consistent quality with required sand mesh sizes in exact proportion which is most important for compactness of plaster, further to have desired workability, less rebounding losses, required slump properties and overall durability, polymers are added in POWER PLAST READY - MIX PLASTER.

What is Plastering ?

Plastering is the process of covering rough surface of walls, columns, ceiling and other parts of the building with thin coat of mortars to form a smooth, hard and durable surface capable of protecting external surface against penetration of rain water and other atmospheric vagaries. A good plaster need to have strong adhesion on walls and ceilings with excellent water resistant, crack free and work ability properties that will protect the interior, provide flat base for painting, minimize the inconvenience of maintenance and speed up the construction. There for in many ways, plastering is as critical as structural member, brickwork and flooring.

PERFORMANCE PARAMETERS	JOB-SITE PLASTER	POWER PLAST (RMP)
Penetration of rain water	Large particle size (>3mm) sand leads to porous surface and gives easy access to rainwater.	Different grade of sand used in exact proportion ensuring compactness in plaster.
Adhesion	High slit and chloride content in sand impedes adhesion properties in mortar, causing high de-bonding losses.	Negligible slit and organic matter free plaster ensure strong adhesion and durability.
De-bonding Losses	High	Negligible
Smoothness	Not so Much	Smooth And hard surfaces provides aesthetic base of plaster to work upon.
Crack Formation	Due to practical on site mixing practical, changes of crack formation is more	POWER PLAST (RMP) produced at automated dry mix plant. Chances of is very negligible subjected to proper curing and application.
Water: Cement Ratio	Due to presence of moisture in sand it is not possible to determine exact quantity of water to be mixed.	Due to dry sand used, water cement ratio is easily maintained and full strength of plaster is obtained.
Grading of Sand	No grading	POWER PLAST (RMP) has graded sand which results compactness of plaster.
Cement: Sand Ratio	Mistake may occur at job site mix	Sand cement ratio is maintained as POWER PLAST (RMP) is made in automated plant.
Plaster Thickness	Reducing of plaster is not possible	Can be reduced up to 25% keeping the required strength.
Polymer Modification	Polymer modification difficult as it involves multiple polymers & doses	Polymers already added results in overall durability.

SPECIFICATION: In POWER PLAST READY - MIX PLASTER cement sand ratio is maintained as 1:4 with enhanced polymers/chemical

➤ **Note:**

1. All tests are carried out at manufacturer's end, specification are derived internally expect. EN standard method.
2. Flexural strength Pull off Adhesion & Water Receptivity is conducted as per EN standard method. Specification for Flexural strength & water Receptivity is derived internally since limit are not specified EN standard.

➤ **Features & Benefits**

- Compact plaster, reduce void gaps
- Negligible slit content
- Reduces rebounding
- POWERPLAST READY -MIX PLASTER- provides highly durable plaster that cuts repair and maintenance cost
- Excellent workability and good adhesion on various substrates
- Paint finish and life of paint are enhanced

➤ **Preparation, Mixing & Application**

The Substrate needs to be cleaned and made free from grease and loose particles. The porous and absorbent substrates need to be pre - wetted prior to application of POWERGRACE READY - MIX PLASTER to prevent premature loss of water from the plaster. This will ensure that thin layer can be applied without cracking problems and proper cement hydration and adherence of the mortar to the substrate is attained. Use 8-9 liter of water for 40kg. POWERGRACE READY - MIX PLASTER, Pour the POWERGRACE READY - MIX PLASTER while mixing for 5-7 minutes with hand or still better with a mechanical mixer to achieve good consistency. Do Not Over Mix.

Allow Mixture to stand 4-5 minutes for additives to dissolve. Re-mix again for about 3 minutes, plaster is ready for use. Apply plaster to the Substrate, using some pressure while finishing with a steel trowel or wooden float to ensure optimum bonding of the plaster to the substrate a surface. POWERGRACE READY - MIX PLASTER can be used for Interior as well exterior wall.

➤ **Packing & Storage**

POWERGRACE READY - MIX PLASTER is available in 40 kg bag and has shelf life of 12 months subject to stored in cool and dry location properly. As temperature humidity, water addition and other parameters vary from site to site, the above information should be treated as a general guideline. Keep it Out of reach of Children.

➤ **Coverage**

POWERGRACE READY - MIX PLASTER approx coverage per 40 kg bag as under.
 10-12 mm plaster on light weight blocks is 17-18 Sq. ft.
 10-12 mm on brick wall 14-15 Sq. ft
 18 mm on light weight blocks is 11 sq. ft
 25 mm on bricks wall 7-7.5 sq. ft
 10 mm on RCC 20-22 sq. ft
 Coverage depends on quality & nature of substrates hence is indication.
 Plaster > 10-12 mm must be in 2 Coasts.

➤ **Water Demand**

Depending upon substrate & climate add approx 7 to 8 liters of water per 40 kg bag.



40 kg.

POWER PLAST BLOCK JOINTING MORTAR

Cementitious polymer Modified Block Jointing Mortar

POWER PLAST BLOCK JOINTING MORTAR is a superior water resistant cement based mortar specially formulated for joining blocks. it contains selected graded dry sand grey cement and imported polymer to improve work ability, water retention durability and adhesion. it is more resistant to corrosive environment.

As POWER PLAST BLOCK JOINTING MORTAR contains fine graded sand it helps in laying an even strong and thin layer of joint. This is not only Cost-effective but also builds even walls as this improves the leveling of walls and the plaster thickness can be reduced. This further reduced thickness of putty application thus all-round reduction of cost can be achieved.

FEATURES	ADVANTAGES	BENEFITS
<ul style="list-style-type: none"> • Excellent bonding to the block/bricks • Better Leveling • Prevent water Percolation 	<ul style="list-style-type: none"> • Good Work ability • Ease of use at site • Consistent work quality • No curing is required • Plastering can be done after 24 hrs. Of Application 	<ul style="list-style-type: none"> • Save time • Cost effective • Can be applied by ordinary mason - no special skills required.

➤ **Application Area**

Laying & jointing of masonry units like AAC Blocks, Hollow Blocks, and fly ash Bricks and Concrete Block etc.
Joining of concrete window and door frames, etc...

➤ **How To Apply?**

Take the required quantity of water in a clean bucket, add POWER PLAST BLOCK JOINTING MORTAR as recommended. Stir continuously for 5-10 minutes by using an electric mixer or by hand to obtain a homogeneous lump free plaster. Allow the resultant wet mortar to stand for about 5 minutes for the additives to dissolve. Re-mix again for about 2 minutes. The mixture is now ready. Use the mix within 60 Minutes. For best result it is advisable to use notch trowel of 3 to 4 mm to have better contact and bonding.

➤ **Surface Preparation**

Masonry surfaces should be clean, without dust, voids and wet prior to application of POWER PLAST BLOCK JOINTING MORTAR.

➤ **Precautions**

POWER PLAST BLOCK JOINTING MORTAR eco-friendly fillers and additives. However being sand and cement based it is alkaline and hence it is advisable to avoid direct eye and skin contact with this. in case of eye contact, wash with clean water at least for 15 minutes and seek medical help. Always add powder to water but not water to provide during mixing.

➤ **Water Demand**

Depending upon the substrate & climate add approx.9 to 10 liters of water for 40 kg bag. For concrete blocks, wet mortar should have less water to form 2 to 3 mm bed of POWER PLAST BLOCK JOINTING MORTAR



Bonding



Saves Time



Easy to Use



Saves Cost



Better Leveling



No Curing

➤ **Packing & Storage**

POWER PLAST BLOCK JOINTING MORTAR is available in 40 kg bag and has a shelf life of 12 months subject to stored in a cool dry location properly. As temperature, humidity water addition and other parameters vary from site to site; the above information should be treated as general guideline.

➤ **Coverage**

POWER PLAST BLOCK JOINTING MORTAR is approx. 120 Sq.ft with average thickness of material for light weight blocks size of 4 inch block. The coverage area however will depend upon the quality and evenness of the substrate, thickness of joint.



Notch Trowel



Patra Finish Trowel



40 kg.

POWER GRACE - PRIMER

We have an excellent Water Based Cement Primer (Water Thinable). For better bonding & greater paint effect in interior / exterior surfaces.

➤ **Special Attributes**

- A water base cement primer
- Alkaline resistant
- Good adhesion to interior masonry surfaces for both new & old cement surfaces
- Superior filling property
- Results in exceptional quality and durable finish coat

➤ **Direction For Use**

- Sand the surface with emery paper 180 and wipe clean. Primer (water thinable) with water to obtain brushing consistency, and apply by brush. If required, fill dents with power grace wall putty and puttied area and allow drying for 4-6 hours. sand with emery paper 320 and wipe clean, before applying the topcoat

➤ **Coverage**

- The approximate covering capacity is 60 to 70 sq. ft per Lit. per coat
- It depends on surface condition / preparation and porosity of the surface.

➤ **Packing Details**

- Available in presentations of 1ℓ , 4ℓ , 10ℓ & 20ℓ plastic containers

➤ **Applications**

- Cement
- Plastered walls
- Asbestos
- Concrete



1 ℓ



4 ℓ



10 ℓ



20 ℓ

POWER MARMO BOND

Chemical Resistant Sealing Products

- **Description:**
Power Marmo Bond is an epoxy resin based chemical resistant versatile sealing product available in paste form as Power Marmo Bond Part I and Power Marmo Bond Part II.
- **Advantages:**
Provides excellent chemical resistance to a wide range of industrial chemicals and gases Sealed membrane is hard with excellent adhesion to all types of metal and cement based surfaces. Sealed membrane is hard-wearing, hygienic, and yet attractive in cosmetic finish.
- **Method of Use:**
Mix required quantities of Power Marmo Bond Part I and Power Marmo Bond Part II in equal proportion and mix till Becomes homogeneous Fill the resultant paste into the dry gaps or dry surfaces where required. Use the mix immediately, as it sets to a hard mass within 40-45 minutes (minimum).
- **Recommended application:**
Repairing of broken floors, fixing tiles, dowel pins and nails, building up broken/chipped parts Repairing leaking MS or RCC tanks, over-head flush-tanks, metal buckets etc..
Patching corroded casings of water coolers, air-conditioners, refrigerators etc..
Joining broken or building-up chipped parts of household items like chinaware, pressure-cooker handles etc..
Holding the glass of window, filling gaps between the frame and wall etc
Sealing of construction joints in RCC members
Sealing leakage through cracks or joints in tin or AC roof sheets
Filling gaps in wooden furniture to prevent wobbling
Sealing leakage in the radiator, diesel or petrol tanks
Making-up dents in metal surfaces of automobiles before painting
Sealing leakage of pipelines, tap connections etc..
Sealing loose electric connections as an insulating medium
- **Packaging :**
1 kg. & 4 kg.



Marmo Bond Part - 1



Marmo Bond Part - 2



POWER MARBLE CLEANER
(Multipurpose Neutral Cleaner)

- **Description:** This chemical is a pale, aqueous, viscous, non ionic detergent formulation containing no acids, alkalis or salt. It is concentrated neutral in pH based floor stain resistant cleaner.
- **Advantages:** (I) Regular cleaning of surface:
- Gives high degree of stain resistance.
- Retains glossiness of surface.
- Imparts dust repelling property
- Imparts slip resistance property
- Imparts antistatic property
(ii) Also used for regular cleaning for oil. & for removing the dust after very long duration.
- **Area of Application:**
This cleaner cum stain resistant may be used on any surface in horizontal / vertical manner i.e. ceramic tiles/ marble / natural or artificial stone / quartz stone etc.
- **Method of Application:**
- Use 100 ml of Power Cleaner for every 1 water and apply on the floor once or twice a month for better stain resistant property.
- Use 100 ml of Power Cleaner for 10 water in a bucket for every day cleaning.
- **Coverage:** As per requirement
- **Shelf Life & Storage:**
- 36 months from date of manufacturing for better results.
- Store in cool and dry place in sealed condition and prevent from direct sunlight.
- **Safety Precautions:** - Avoid contact with skin & eyes.
- In case of contact with skin, rinse with clean water and then clean with soap water.
- In case of contact with eyes, rinse immediately with clean water and seek medical advise.
- **Packaging : 1 l / 5 l**



A Product from Germany

POWER TILE CLEANER (Specific)

- **Description:** This chemical is a pale, aqueous, viscous, non ionic detergent formulation containing no acids, alkalis or salt. It is concentrated neutral in pH based floor stain resistant cleaner.
- **Advantages:** (I) Regular cleaning of surface:
- Gives high degree of stain resistance.
- Retains glossiness of surface.
- Imparts dust repelling property
- Imparts slip resistance property
- Imparts antistatic property
(ii) Also used for regular cleaning for oil. & for removing the dust after very long duration.
- **Area of Application:**
This cleaner cum stain resistant may be used on any surface in horizontal / vertical manner i.e. ceramic tiles/ marble / natural or artificial stone / quartz stone etc.
- **Method of Application:**
- Use 100 ml of Power Cleaner for every 1 water and apply on the floor once or twice a month for better stain resistant property.
- Use 100 ml of Power Cleaner for 10 water in a bucket for every day cleaning.
- **Coverage:** As per requirement
- **Shelf Life & Storage:**
- 36 months from date of manufacturing for better results.
- Store in cool and dry place in sealed condition and prevent from direct sunlight.
- **Safety Precautions:** - Avoid contact with skin & eyes.
- In case of contact with skin, rinse with clean water and then clean with soap water.
- In case of contact with eyes, rinse immediately with clean water and seek medical advise.
- **Packaging : 1 l / 5 l**



1 l

5 l

POWER GRACE PG-150 Type-I

Hardening Time:	Coverage/ Consumption	Layer Thickness	Water Consumption	Tensile Adhesion 7 Days :N	Tensile Adhesion 14 Days :N	Shear Adhesion KN	Pot Life	Open Time	Adjustability Time	Grouting
Approx. 48 hours	Approximately 3 kg. / m ² , depending on the size of tiles	Up to 3 mm	Approximately 1.4 kg. water / 5 kg.	Dry Condition : 415	Dry Condition : 540	Dry Condition 14 Days : 6.0	Approx. 60 minutes	>= 20 min	>= 20 min	After 8 h on walls and 24 hours on floor
				Wet Condition : 250	Wet Condition : 340	Heat Aging Condition : 3.00				
						Wet Condition : 3.00				

POWER GRACE PG-250 Type-I

Hardening Time:	Coverage/ Consumption	Layer Thickness	Water Consumption	Tensile Adhesion 7 Days :N	Tensile Adhesion 14 Days :N	Shear Adhesion KN	Pot Life	Open Time	Adjustability Time	Grouting
Approx. 48 hours	Approximately 3 kg. / m ² , depending on the size of tiles	Up to 3 mm	Approximately 1.4 kg. water / 5 kg.	Dry Condition : 560	Dry Condition : 750	Dry Condition 14 Days : 8.0	Approx. 60 minutes	>= 20 min	>= 20 min	After 8 h on walls and 24 hours on floor
				Wet Condition : 350	Wet Condition : 450	Heat Aging Condition : 4.00				
						Wet Condition : 4.00				

POWER GRACE PG-400 & PG-W-400 Type-II

Hardening Time:	Coverage/ Consumption	Layer Thickness	Water Consumption	Tensile Adhesion 7 Days :N	Tensile Adhesion 14 Days :N	Shear Adhesion KN	Pot Life	Open Time	Adjustability Time	Grouting
Approx. 48 hours	Approximately 3 to 12 kg. / m ² , depending on the size of tiles	Up to 12 mm	Approximately 1.4 kg. water / 5 kg.	—	—	Dry Condition 14 Days : 10.0	Approx. 60 minutes	>= 30 min	>= 30 min	After 8 h on walls and 24 hours on floor
				—	—	Heat Aging Condition : 5.00				
						Wet Condition : 5.00				

POWER GRACE PG-W-600 Type II (Flexi Adhesive)

Hardening Time:	Coverage/ Consumption	Layer Thickness	Water Consumption	Tensile Adhesion 7 Days :N	Tensile Adhesion 14 Days :N	Shear Adhesion KN	Pot Life	Open Time	Adjustability Time	Grouting
Approx. 48 hours	Approximately 2.5 to 4 kg. / m ² , depending on the size of tiles/marble	up to 10mm	Approximately 1.3 kg. water / 5 kg.	—	—	Dry Condition 28 Days : >2.50 n/ mm ²	Approx. 60 minutes	>= 30 min	>=40 min	After 8 h on walls and 24 hours on floor
				—	—	Heat Aging Condition : >2.50 n/ mm ²				
						Wet Condition : >1.00 n/ mm ²				

POWER POXY GROUT

Foot Traffic	Max. Width Between Tile Joint	Pot Life	Mixing Ratio	Grouting	Cure @ 27 +/- 2 Degree C	Water Absorption	Temp. Resistance	Compressive Strength	Tensile Adhesion (14 Day Air Curing)
Approx. 48 hours	Upto 12 mm	Approx. 45 Minutes at 25 Degree C	For 1 kg. : Resin (200g Hardener (100g) & Filler (700g)) For 5 kg. : Resin (1 kg.) Hardener (500g) & Filler (3.5 kg.)	After 3 days of fixing tiles (Under Dry Surface Condition)	48 hrs.	Nil	Prolonged 30 Degree C to 70 Degree C	> 450 kg./cm ²	(1) Dry Condition : > 4.5 kN (2) Wet Condition : >3.6 kN

POWER GROUT - CEMENTITIOUS

Foot Traffic	Max. Width Between Tile Joint	Pot Life	Water Consumption	Compressive Strength	Grouting
Approx. 48 hours	Upto 5 mm	Approx. 60 Minutes at 30 Degree C	Approximatey 1.4 kg. water / 5 kg.	150 kg. / cm ²	After 8 h on walls and 24 hours on floor when tile fixed with adhesive

POWER MARMO BOND

Form	Base	Bulk Density	Pot Life	Ratio	Storage	Packing
Part I & II - Paste	Epoxy Resin	1,423 kg / ℓ	Mini. 60 minutes @ 30°C	In equal proportion	Shelf life 18 months at 25°C	1 kg. & 8 kg.

POWER GRACE - WALL CARE PUTTY

Properties	Results	Reference & Requirement
Tensile Adhesion Strength @ 28 Days	2.38 N/mm ²	HDB(Housing Develop. Board, Singapore) > 1.0 N/mm ²
Compressive Strength @ 28 Days	10.27 N/mm ²	BS 4551 : Part 1 [7-12 N/mm ²] & EN 1015-11:1999
Setting Time	Initial=> >100Minutes, Final=> >500Minutes	BS 4551 : Part 1 [240-360 Minutes] & EN 196 Part 3
Water Absorption Coefficient	0.23 [kg./m ² *ml h 0.5]	EN1015-18 [<=0.13]
Water Capillary Absorption @ 24 hrs	0.8 ml	
Water Retentivity	> 98%	BS 4551 : Part 1 [>=95%] & EN 1015-8
Pot Life	2-3 Hrs.	
Maximum Thickness of Total Coating	2 – 2.5 mm	
Coverage on Smooth Surface	35 Sq.ft/mm thickness / kg. of Putty	
Water Putty Ratio	@ 1 : 2.5	
Dry Adhesion	1.34 Mpa (+/-0.17)	EN 1015-12 [Min. 0.8 Mpa]
Compressive Strength @ 28 Days	10.27 N/mm ²	BS 4551 : Part 1 [7-12 N/mm ²] & EN 1015-11:1999
Setting Time	Initial=> >100Minutes, Final=> >500Minutes	BS 4551 : Part 1 [240-360 Minutes] & EN 196 Part 3
Water Absorption Coefficient	0.23 [kg./m ² *ml h 0.5]	EN1015-18 [<=0.13]
Water Capillary Absorption @ 24 hrs	0.8 ml	
Water Retentivity	> 98%	BS 4551 : Part 1 [>=95%] & EN 1015-8
Pot Life	2-3 Hrs.	
Maximum Thickness of Total Coating	2 – 2.5 mm	
Coverage on Smooth Surface	35 Sq.ft/mm thickness / kg. of Putty	
Water Putty Ratio	@ 1 : 2.5	
Dry Adhesion	1.34 Mpa (+/-0.17)	EN 1015-12 [Min. 0.8 Mpa]

POWER GRACE LIQUID WATERPROOF

Table 1.

Characteristics [Physical Parameters]	Units	Result / (Without Integral Waterproofing Compound) / Specification [OPC Cement, Grade-43]	Result / (With Integral Waterproofing Compound with recommended dose level @ 150ml for 50 Kg Cement)	Method of Test
Initial Setting Time	Minutes	125 / Min. 30 (Specification as per IS : 8112-1989)	120 / Not less than 30 min. nor the reduction in the initial setting time shall be more than 25 percent of the actual initial setting time	IS : 4031 (Part 5)-1988
Final Setting Time	Minutes	235 / (Specification as per IS : 8112-1989) / Max. 600 (Specification as per IS : 8112-1989)	245 / Not more than 600 min.,nor the increase in the final setting time shall be more than 25 percent of the actual final setting time	IS : 4031 (Part 5)-1988
Compressive Strength after 3 Days	Mpa	32.0 / Min. 23.0 (Specification as per IS : 8112-1989)	31.4 / Min. 90% Compressive Strength after 3 days OPC Cement, Grade 43	IS : 4031 (Part 6)-1988
Compressive Strength after 7 Days	Mpa	42.5 / Min. 33.0 (Specification as per IS : 8112-1989)	43.1 / Min. 90% Compressive Strength after 3 days OPC Cement, Grade 43	IS : 4031 (Part 6)-1988
Permeability to Water	ml/hours	10.2	Nil / Less than 50% of specimens without water proofing	IS : 2645-2003

Table 2.

Characteristics [Chemical Parameters]	Units	Result	Specification	Method of Test
Chloride	%	0.82	Max. 2.0	IS :6925-1973

POWER GRACE SBR - LATEX

Table-1[Physical and Chemical Parameters]

Setting Time of Cement without SBR Latex	Unit	Result	Specification
Initial Setting Time	Minutes	175.0	IS : 4031-1988 and its relevant parts
Final Setting Time	Minutes	255	
Setting Time of Cement with SBR Latex	Unit	Result	Specification
Initial Setting Time	Minutes	185	IS : 4031-1988 and its relevant parts
Final Setting Time	Minutes	265	
Solid Content	%	43.65	
pH	Not Applicable	8.02	
Relative Density	Not Applicable	1.02	

Table-2 [Pull Out Test with & without SBR LATEX]

Characteristics	Unit	Result(Without SBR Latex) / With SBR Latex	Specification
Pull Out Test (Bond Test)	Not Applicable	Passes the Test	Method of Analysis as per IS : 2770 (Part 1)-1967
The average compressive strength at 7days	kg./cm ²	179.5 / 177.4	
The average compressive strength at 28days	kg./cm ²	273.7 / 276.8	
The age of specimen	Days	28 / 28	
Percent exceed in load at slip of 0.025 mm deformed bar that of a plain round bar	%	48.7 / 52.8	
Percent exceed in load at slip of 0.25 mm deformed bar that of a plain round bar	%	95.3 / 90.4	

POWER PRIMER

Interior Wall Primer Water base

Weight Per Litre	: 1.40 +/- 0.03
Viscosity	: 90-100 KU @25 Celsius
Total Solid	: 50% - 55%

Exterior Wall Primer Water base

Weight Per Litre	: 1.43 +/- 0.03
Viscosity	: 95-105 KU @25 Celsius
Total Solid	: 51% - 57%

POWER MASTIC

Appearance	: liquid
Colour available	: 01 White
Odour	: characteristic
Specific gravity at 20°C (68°F)	: 1,76 ±0,01
Hydro-solubility	: insoluble
pH	: n.a.
Catalysis ratio:	: 2% in weight
Check technical bulletin for hardener for more information!	
Bending tension ASTM D638:	
Elasticity modulus	: Mpa 5.200± 479
Breaking Tension	: Mpa 32,5 ±2,1
Deformation at break	: 06 ±0,1 %
Bending flexion ASTM D790:	
Elasticity modulus	: Mpa 6.300 ± 320
Maximum strength at break	: Mpa 54,5 ±4,5
Deformation at break	: 1,1 ±0,1 %
Shelf life at 20° C (68° F)	: 6 months in its original packing

POWER PLAST BLOCK JOINTING MORTAR

Test	Method of Test	Specification
Setting time : initial	>= 30 min	IS: 4031 PART - 5: 1998
Setting time : Final	<= 600 min	IS: 4031 PART - 5: 1998
Compressive Strength : 2 days in mould + 5 day in polythene bag + 21 days @ 23 c with 50% RH	As per EN 998 - 1 for Categories CS IV - >6 (N/MM2)	EN 1015 - 11:1999
Water Receptivity	Not Specified	EN 1015 - 8
Pull of Adhesion : 2 mm thick on concrete. Storage 7 days in polythene bag @ 23 C + 7 days @ 23 C With 50% RH	Not Specified	ASTM 4541 & EN 1015 - 12
Capillary water absorption	As per EN 998 - 1 wo no requirements w1 <= 0.4 kg/m2.min ¹⁵ w2 <= 0.20 kg/m2.min ⁴⁵	EN 1015 - 8
Flexural Strength : 2days in mould + 5 days polythene bag + 21 days @ 23 with 50% RH	Not Specified	EN 1015 - 11:1999

POWER PLAST READY - MIX PLASTER

Test	Method of Test	Specification
Setting time: initial	IS: 4031 PART - 5 : 1988	>=30 min
Setting time: Final	IS: 4031 PART - 5 : 1988	<=600 min
Pull off Adhesion: 10 mm thick on concrete. Storage 7 days in polythene bag @ 23°C + 7 days @ 23°C with 50% R.H	ASTM 4541 & EN 1015 - 12	Min 0.3 Mpa
Water Receptivity	EN 1015 - 8	Min 95%
Comprehensive Strength: 2 day in mould + 5 days in polythene bag + 21 days @ 23 degree C with 50% R.H	EN 1015 - 11.1999	As per EN 998-1 for categories (N/NM2) CS I - 0.4 to 2.5, CS II - 1.5 to 5 CS III - 3.5 to 7.5, CS IV ->6
Flexural Strength: 2 days in mould + 5 days in polythene bag + 21 days @ 23° C with 50% R.H	EN 1015 - 11.1999	Min 1.8 Mpa
Capillary Water Absorption	EN 1015-18	As per EN 998-1 WO no Requirements W1 C <=0.40 kg/m2. Min ⁰⁴ W2 C <=0.20 kg/m2. Min ⁰⁵