



TIGONISTM

A WIDE RANGE OF
BUILDING & CONSTRUCTION MATERIALS

PUTTY | PAINTS | ADHESIVES | DRY MIX MORTAR
WATERPROOFING | CONSTRUCTION CHEMICALS

PRODUCT CATALOGUE



BENGAL BUILDING SOLUTIONS PRIVATE LTD.

We, at Bengal Building Solutions Pvt Ltd (BBSPL) thrive to be one of the largest building materials solution providers in India and in South-East Asia aiming at becoming pioneers in providing eco-friendly building and construction materials. The company is led by an immensely qualified and experienced team comprising of industry veterans with IIT and IIM background and having run huge multinationals over the decades. Our state-of-the-art manufacturing unit is in Amtala, South 24 parganas, West Bengal, which is all set to be India's first integrated, versatile plant, manufacturing different cement based and allied products like blocks, cementitious dry mix mortars, construction chemicals and various other paint products and derivatives. BBSPL aims to provide easy, one stop solution to all your asset development needs. BBSPL has recently launched their flagship brand TIGONIS in Eastern India.



MANUFACTURING UNIT AT AMTALLA



APPLICATORS MEET IN PROGRESS



WALL PUTTY APPLICATION



MANUFACTURING UNIT GROUND VIEW

PRODUCT GUIDE | DRY MIX MORTARS

TIGONIS TILE ADHESIVE is a ready-to-use premium quality adhesive with exceptional bonding strength and is made of polymers and modified grey cement for fixing all types of ceramic and vitrified tiles on floors, surfaces and walls. Available in 2 variants (Premium & Super).

ADVANTAGES

- ◆ High bonding tensile and shear strength
- ◆ Thermal insulation
- ◆ Readymade product, saves time and labour
- ◆ Better bonding, superior durability
- ◆ Enhanced water proofing capability
- ◆ Lesser surface area material consumption due to inherent properties



TECHNICAL INFORMATION

Colour	Grey Powder
Mixing Ratio	20-25% water by weight
Pot Life	2-3 hours
Coverage*	2.25 sq ft per kg at 3 mm thickness
Pack Size	20 KG & 30 KG bags
Tensile adhesion Strength	Dry condition 28 days 0.93 KN
Shear adhesion Strength	Dry condition 28 days 12.33 KN
Product IS Code	IS 15477 : 2004

* Depends on the application area & surface condition

Manufactured as per BIS 15477 norms

TIGONIS WHITE MARBLE ADHESIVE is a professional grade White adhesive mortar modified with high polymer levels for higher adhesion. It is a single part, rapid setting, flexible adhesive, ideal for the installation of all kinds of Marble, Ceramic / Porcelain Tiles / low porosity Tiles and natural stone.

ADVANTAGES

- ◆ High bonding strength
- ◆ 3-4 MM bend depth
- ◆ Low dust release installer
- ◆ Friendly low moisture pack
- ◆ Enhanced water proofing capability
- ◆ Lesser surface area material consumption due to inherent properties



TECHNICAL INFORMATION

Unit Size	20 kg & 30 Kg
Colour	White
Classification	Adhesive
Bed Thickness	3 mm – 4 mm
Grout After*	6 hours
Coverage*	3 sq ft/kg @3 mm thickness
Pot Life*	3 hours at 20° C
Set Time*	6 Hours at 20° C
Application Temp.	5° C to 25° C

*Actual coverage may vary depending upon the surface quality.

Manufactured as per BIS standards

TIGONIS TILE GROUT is an economical hard-wearing, water-resistant chemical for filling joints in exterior and interior walls and floor ceramic tiles and mosaics. It is a specially formulated chemical to fill joints of up to 5 mm in width. It is easily applied by hand and because of its unique composition, does not shrink when dry.

ADVANTAGES

- ◆ Easy application ◆ Does not curl up during application ◆ Good adhesion ◆ Environment-friendly
- ◆ Good water and weather resistance ◆ Helps to reduce shrinkage & cracks in tiles.



TECHNICAL INFORMATION

Mixing Ratio	20-25% water by weight
Pot Life	90 mins
Pack Size	1 Kg
Compressive Strength	> 15 Mpa
Shades	White, Ivory, Pure Yellow, Water Green, Sky Blue, Sapphire, Slate Grey, Silver Grey, Ivy, Burgundy, Saitillo, Terracotta, Spectra Pink. Midnight Black

Manufactured as per BIS standards.

TIGONIS BLOCK JOINING MORTAR is a high strength adhesive for quick and firm laying of AAC Blocks, fly ash bricks, concrete blocks, etc with thin joints. It's a factory-mixed mortar made up of cement, graded stones, blended with polymers to deliver high strength and water retention properties even when in thickness of 2-3 mm.

ADVANTAGES

- ◆ High bonding strength ◆ High surface area coverage ◆ Helps to reduce shrinkage, cracks or shortness
- ◆ No post layout curing required ◆ High thermal insulation properties ◆ Economical and easy to use
- ◆ Minimum wastage ◆ Premixed and ready to use product



TECHNICAL INFORMATION

Colour	Grey Powder mixture
Dilution	25-30% with water by weight
Pot Life	1.5-2 hours (Usually it is lesser)
Coverage (600 mm × 200 mm × 200 mm AAC Blocks)*	1.8 -2 m3/40 kg bag
Pack Size	40 KG & 50 KG
Areas of Application	AAC Block & CLC Block
Tensile Adhesion Strength	> 0.68 MPa @28 days
Compressive Adhesion Strength	> 14.9 MPa @ 28 Days

*Depending on the desired application.

Manufactured as per BIS standards

TIGONIS GROUT ADMIXTURE is a white synthetic polymer additive, use with cement based grouts for tile joint grouting works. Tigonis Grout Admixture is used in place of water to provide a dense, colorfast grout joint that inhibits stain causing bacteria growth and ideal for all interior and exterior grout applications.

ADVANTAGES

- ◆ Improves flexibility ◆ Reduced water permeability: improves water resistance ◆ Improves the adhesion strength
- ◆ Suitable for Interior & Exterior ◆ Easy to clean using a minimal amount of water ◆ Provides a more dense and stronger Portland cement grout joint hence inhibits powdering and cracking ◆ Reduces problems with faded or blotchy colour in grouts ◆ Prevents damage to grouts from thermal shock ◆ Improves flexibility and durability. Makes grout more shock resistant.



TECHNICAL INFORMATION

Appearance	White Emulsion
Specific Gravity	1.02
Pot Life	60 min
Time to Foot Traffic	24 hrs
Time to Heavy Traffic	72 hrs

Manufactured as per BIS standards.

TIGONIS TILE BONDER is an economical on-site mix additive for improving the strength and workability of cement, for fixing of tiles. Tigonis Tile Bonder exhibits very high water retention and thus reduces the absorption of water in to porous substrates. Hence provides workability, sufficient sag resistance as well as appropriate setting time. The adjustability is good even at low dosages and high ambient temperatures. It makes cement self-cured.

APPLICATION AREAS

Tigonis Tile Bonder with cement slurry is used for fixing tiles on conventional method / leveling bed application. For fixing tiles on wall, Tigonis Tile Bonder is to be mixed with cement and / or sand and can be applied by notch trowel.

METHOD OF APPLICATION

A. Cement + Tigonis Tile Bonder:

Take 10 Ltrs of water in a clean and dry vessel. Slowly, mix 50 Kg Cement and 300 gms of Tigonis Tile Bonder under stirring to obtain a uniform lump-free consistency. Finally, add 5 Ltrs. of Water to get a soft and smooth paste.

B. Cement + Sand + Tigonis Tile Bonder:

When using with sand, take 300 gm Tigonis Tile Bonder only for 25 kg cement and desire quantity of sand.



TECHNICAL INFORMATION

Appearance	Free flowing powder
Colour	White
Packaging	300 gms

Manufactured as per BIS standards.



Step-1



Step-2



Step-3



Step-4



Step-5

PRODUCT GUIDE | PAINT SEGMENT

TIGONIS WALL PUTTY Tigonis premium Wall putty is a white cement based powder finished coating, applied on walls, surfaces and ceilings. This covers unevenness, undulations and pin holes on the plastered surface. It strengthens the wall and protects expensive paints from dampness, efflorescence and moisture. Tigonis Wall Putty is modified with polymers and special additives for enhanced strength, finish and performance. Tigonis delivers the real essence of ultrafine decor—always.

ADVANTAGES ♦ White smooth surface finish ♦ Considerable reduction of paint consumption ♦ Superior paint finish
♦ Protection from flaking, dampening and peeling off

APPLICATION AREAS Tigonis Wall Putty is ideal for finishing and decorating exterior and interior walls of all kinds. It can be used before repainting old surfaces. It is ideally applied on plastered walls in order to create a smooth, less absorbent surface before the top coat is applied.



TECHNICAL INFORMATION

Colour	Super White
Mixing Ratio	With 35-40% water by weight
Dry film thickness	1-1.5 mm (Standard)
Coverage*	12-14 sq. ft. per kg per coat
Pack Size	5 KG, 40 KG & 50 kg
Tensile Adhesion Strength	1.0 Mpa at 28 days
Compressive Adhesion Strength	16 Mpa at 28 days
Pot life after mixing Water*	2-3 hours

* Depends on surface quality and desired dry film thickness (DFT) and other conditions

Manufactured as per BIS standards.

TIGONIS WATERPROOF WALL PUTTY It is white cement based putty ideal for using on plastered/ concrete walls and ceilings. It covers unevenness, undulations and pin holes on the plastered surface. It strengthens the wall and protects expensive paints from dampness, efflorescence and moisture. Tigonis water proof wall putty is modified with polymers and special additives for enhanced strength, finish and performance.

ADVANTAGES ♦ White smooth surface finish ♦ Considerable reduction of paint consumption ♦ Protection from flaking, dampening and peeling off ♦ Highly durable with excellent water repellent nature.

APPLICATION AREAS It is ideal for protecting, waterproofing, finishing and decorating exterior and interior walls of all kinds. It is used on the walls and surfaces that may be prone to damp causing salt efflorescence.



TECHNICAL INFORMATION

Appearance	White Free Flow Powder
White Powder	35-40% water by weight
Compressive Strength 28 Days	>10 MPA
Water Penetration Karsten	Around 1 ML. Max (6 Hours) At 30°C
Tube (Horizontal & Vertical)	
Pot Life	3 Hours At 30°C
Dry Film Thickness	1-1.5 MM (Standard)
Coverage*	16-18 sq. ft. per kg per coat
Pack Size	20 kg, 40 kg & 50 kg

* Depends on surface quality and desired dry film thickness (DFT) and other conditions.

Manufactured as per BIS standards.

TIGOCEM WATER PROOF CEMENT PAINT is a Premium White Cement based Cement Paint, specially designed for better paint brush ability, easy mixing and application, longer pot life and extra coverage. It is the best protective cement paint coat against moisture and decay. It contains heat and UV resistant Oxide Pigments that are long lasting and eco-friendly.

ADVANTAGES

- ◆ High strength ◆ Breathable paint ◆ Superior brush ability ◆ Economical protection ◆ Durable, waterproof surface
- ◆ Repels rain on external surfaces ◆ Greater coverage ◆ Longer pot life ◆ Anti-flaking properties.



TECHNICAL INFORMATION

Appearance	Fine powder form
Finish	Beautiful matt finish
Curing	1st coat & 2nd coat should be cured properly
Drying Time	6-8 hours depending on climatic conditions
Mode of Application	Either to be brushed or sprayed
Coverage	30-45 sq ft. per kg./coat
Recoating period	18-24 hours depending on climatic condition.
Product IS Code	IS 5410 : 1992
Dry Film Thickness	50-60 microns
Pack size	25 Kg
Shades	Ivory, White, Mid Cream, Light Olive, Aquamarine, Special Green, Apple Green, Sky Blue, Special Blue, Brick Red, Bright Pink and Peach.

Manufactured as per IS5410:1992 standards.

TIGONIS CEMENT PRIMER is an acrylic based water-thinnable wall coating suitable for application on exteriors & interiors as an undercoat to emulsions on exterior and interior walls & surfaces. It acts as a sealer coat to prevent the excess absorption of decorative paints and enhances the overall coverage of the finish coats.

ADVANTAGES

- ◆ Does not chalk ◆ Can be applied on adequately cured fresh plaster ◆ Does not require curing with water
- ◆ Provides excellent adhesion to top coat emulsions ◆ Prevents peeling off/flaking of top coat emulsions



TECHNICAL INFORMATION

Colour	White
Drying Time	Within 30 Mins
Recoat Time	After 4-5 Hours
Over Coating Interval	8 Hours
Coverage*	100-120 sq ft. per litre per coat
Stability	To be used within 24 hours
Pack Sizes	1 Lt., 4 Lt., 10 Lt. & 20 Lt.

* Depends on surface quality.

Manufactured as per BIS standards.

TIGONIS ACRYLIC DISTEMPER is quality water based wall finish for Interior surfaces. It is a proper finish for interior walls which demand a beautifully decorated Finish without any glares of unexpected light reflection. Applied on exterior and interior plastered surfaces after the application of Tigonis Wall Putty and Tigonis Cement primer.

PERFORMANCE FEATURES & BENEFITS Easy application ♦ Gives unmatched durability and a smooth finish
 ♦ Ensures shade retention for a long time ♦ Bright matt finished Shades ♦ Better Performance Formulation
 ♦ Washable Properties ♦ Economical and good value for money



TECHNICAL INFORMATION

Coverage*	110-120 sq. ft/Kg/coat, when applied on smooth and non-absorbent surfaces.
Drying Time	Surface Dry: 30 minutes.
Overcoat ability	4-6 hrs (@27± 2C & RH 60 ±5%):
Thinning	Add 50-60% Potable Water by Weight or as per desired applicable viscosity according to the application method
Gloss/Sheen	Matt And Smooth
Flash Point	NA
Stability of Thinned Paint	Use within 24 hrs.
Pot Life*	90 Minutes at 20° C
Pack Sizes	5, 10 & 20 Kg containers
Colour Shades	White, Ivory, Pale Cream, Daffodil, Pista, Aquamarine, Pastel Green, Surf Green, Merry Pink, Wild Lilac, Satin Blue Tigonis Blue and Electric Blue.

*Actual coverage may vary depending on method & condition of application, surface roughness & surface porosity.

Manufactured as per IS428:2000 standards.

RED OXIDE METAL PRIMER is oil modified alkyd-based primer that can be used as an undercoat for ferrous metal substrate, which offers good corrosion resistance and assures strong adhesion of the final coat. It can be applied by brushing or spraying and offers good opacity, coverage flow and leveling

PROPERTIES ♦ Excellent Adhesion ♦ Offers good opacity ♦ Prevents the spread of corrosion ♦ It can be easily applied by brush, cloth or spray ♦ Most economic with highest coverage



TECHNICAL SPECIFICATIONS

Finish	Matt
Thinner	Mineral Turpentine Oil (MTO)
Method of Application	Brush or Spray
Recommended application viscosity	Brushing 60-65 sec @ 30° C FCB4
Theoretical spreading	Spraying 40-45 sec @ 30° C FCB4
Capacity	160-180 Sq.Ft/Lit/Coat. Will vary depending on the surface preparation and method of application
Drying Time	SD:Less than 1 hr. (at 18-25 micron DFTI)
	HD:Less than 24 hrs.(at 18-25 micron DFTI)
Recoating Period	8-10 hrs.(Ambient temperature and humidity factor)
Stability of thinned paint	To be used within 24 hours
Shelf Life	1 Year from the date of packaging
Pack sizes	1 , 4 & 20 Litres

Manufactured as per BIS standards.

PRODUCT GUIDE | CONSTRUCTION CHEMICALS

MEGAPROOF WPC++ (INTEGRAL WATERPROOFING COMPOUND) is specially formulated using active plasticising agents, additives and polymers. It is a corrosion resistant additive used for cement concrete, mortar & plasters. It substantially reduces the permeability of water into concrete, prevents segregation and makes concrete cohesive.

APPLICATION AREAS

Roof Slabs | Screeds | External Plastering | Basements | Bathrooms and Balconies | Sumps and drains | Water Retaining Structures

FEATURES & BENEFITS

Corrosion Resistant and Durable: MEGAPROOF WPC++ Makes the concrete more durable and more cohesive hence providing protection of the steel structure. **Strength and Shrinkage:** Reduces shrinkage, crack development in concrete and makes sure the compressive strength of the concrete remains within the specification limits. **Workability:** It is highly dispersible & compatible with concrete/mortars improving the workability of the concrete mixture. It substantially reduces the permeability of water into concrete.



TECHNICAL INFORMATION

Appearance	Free flowing reddish liquid
Sp. gr. @ 250 C	1.01 - 1.02
Non-volatile content	13.5 - 14.5%
pH value	9 - 12
Setting time minutes	300 - 600 min.
Chloride content:	Max. 2.00%
Compressive strength	As per IS mentioned
Dosage	200 ml per 50 kg bag of cement
Water permeability	44.86% (as per IS 2645 – 2003 <50%)
Packaging	1, 5 10 & 20 Litre containers
BIS code	IS :2645 : 2003

Manufactured as per BIS standards.

TIGONIS SUPERPOWER SBR (Styrene Butadiene Rubber) Latex provides good adhesion and water resistance when mixed with cement slurry/mortar/concrete/grout. It is a bonding admixture and is used to improve bond strength and chemical resistance.

Reduces cracking | Increases wear resistance | Increases mortar flexural & tensile strength | Increases durability during freeze/thaw cycles | Improves bond strengths to hardened concrete | Greater surface coverage & easy to use.

Application 1 Waterproof Slurry Coating/Bond Coat

Mixing Ratio-TSPLA*:WATER:CEMENT = 1:4:7-9 (By Weight)

Application 2 Polymer Repair Mortar (1Cement:4 Sand)

Liquid Mixing Ratio-TSPLA*:WATER = 1:6 | Liquid : Powder ratio = 1:2

Application 3 Crack filling Putty (1 Liquid : 2 Marble Dust)

Liquid Mixing Ratio-TSPLA*:WATER = 1:2

Application 4 Polymer Concrete (Repair Concrete & Screenshot)(1Cement:2 sand:4 Aggregates)

Liquid Mixing Ratio: TSPLA*: WATER = 1: 4 | Liquid: Powder ratio = 1:2

Application 5 Additive to cement for injection grouting

Liquid Mixing Ratio: TSPLA*: WATER= 1:5 ; Liquid : Cement = 1:2

*TIGONIS SUPER POWER SBR LATEX



TECHNICAL INFORMATION

Appearance	Free flowing milky white liquid
Chemical COMPOSITION	Styrene Butadiene Rubber Emulsion
Solid Content/NVM	~ 42-44% by weight
Bonding Strength N/sq mm	>5
Packaging	500g, 1kg, 5kg, 10kg, 20kg
Shelf Life	18 months from date of production

Manufactured as per BIS standards.

TIGONIS TIGO CLEAN is a versatile product formulated for clean flooring systems like Tiles, In Situ Mosaic, Ceramics, Kent Tiles, Wash Basin, Bathtub, Concrete and other similar surfaces.

FEATURES & BENEFITS : ♦ Does not damage joints between ceramic tiles ♦ Removes stain easily ♦ Cleans ceramic, porcelain, vitrified tile & grout ♦ Does not affect glaze and pigments of tiles ♦ Safe to use and does not have side effects

APPLICATION: Wet the substrate surface with 1:1 diluted Tigo Clean. Leave for soaking for five minutes. Then Scrub with Scrubber or cloth and finally wash with water.



TECHNICAL INFORMATION

Colour	Reddish Liquid
Soaking time	5 mins. after application
Dilution	Dilute with water in a 1:1 ratio
SKU's	500 ml and 1 Litre

Manufactured as per BIS standards.



TIGONIS RUST REMOVER is used as cleaning agent which effectively removes rust from steel surfaces, before application of any protective coating or as a corrective/ upkeep measure.

APPLICATION AREAS

Tigonis Rust Remover: ♦ New or old reinforcement steel in construction ♦ Removes rust from tanks, pipelines, trusses, purlins, rafters etc. ♦ Ball bearings, valves, hacksaws, hammers and other tools ♦ Has a great domestic use advantage and can clean rusted utensils almirah and other iron based surfaces ♦ Can be used in the automobile segment.

FEATURES & BENEFITS

1. Ease of application - Ready to use, easily applicable by brush. **2. Penetration & effect** - effective rust removal even from areas difficult to reach & penetrate. **3. Economical** - Cost effective because of good coverage.



500 gms

250 gms

METHOD OF APPLICATION

Apply Tigonis Rust Remover on affected surface by using cotton waste swab or by brush application. Leave the surface to react with Tigonis Rust Remover for at least 15 to 30 minutes.

TECHNICAL INFORMATION

Colour	Clear Liquid
Density	1.02 kg/l at 30°C
Packaging	250 gms, 500 gms

Manufactured as per BIS standards.

TIGONIS HIGH PERFORMANCE POLYMER MODIFIED WHITE CEMENT COMPOUND is a premium quality modified white cement designed for decorative purpose, repair work. It is highly suited for filling porous and tiles joints.

FEATURES : ♦ Long lasting ♦ It does not shrink ♦ Non-cracking ♦ Easy to apply and clean up.

ADVANTAGES: ♦ Inhibits powdering and cracking ♦ Designed for interior and exterior use ♦ Improves flexibility and durability



1 kg

TECHNICAL INFORMATION

Colour	White
MIXING RATIO	250 ml water for 1kg
POT LIFE	60min
PACK SIZE	1kg pack (Secondary packaging 1kgX25=25kg)

Manufactured as per BIS standards.

IN PROUD ASSOCIATION

					
					
					
					
					
					
					

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WATERPROOFING | CONSTRUCTION CHEMICALS



TIGONIS TILE ADHESIVE



TIGONIS WHITE MARBLE ADHESIVE



TIGONIS TILE GROUT



TIGONIS BLOCK JOINING MORTAR



TIGONIS TILE BONDER



TIGONIS GROUT ADMIXTURE



TIGONIS WALL PUTTY



TIGONIS WATERPROOF WALL PUTTY



TIGONIS WATERPROOF CEMENT PAINT



TIGONIS CEMENT PRIMER



TIGONIS ACRYLIC DISTEMPER



TIGONIS RED OXIDE METAL PRIMER



TIGONIS MEGAPROOF WPC++



TIGONIS SUPERPOWER SBR



TIGONIS TIGO CLEAN



TIGONIS RUST REMOVER



TIGONIS HIGH PERFORMANCE
POLYMER MODIFIED WHITE
CEMENT COMPOUND



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