

**CONSTRUCTION CHEMICALS BROCHURE** 







## **Our Vision**

Global recognition for quality and efficiency while nurturing nature and society.



## **Our Mission**

Supporting India's growth in core economic sectors with speed and innovation.





## **About Us**

JSW Cement is part of the diversified US \$23 billion JSW Group. As one of India's leading business houses, JSW Group has other business interests in sectors, such as steel, energy, infrastructure, paints, sports and venture capital. JSW Cement is India's leading green cement company with current capacity of 19 MTPA across manufacturing units at Vijayanagar in Karnataka, Nandyal in Andhra Pradesh, Salboni in West Bengal, Jajpur in Odisha, Dolvi in Maharashtra and Fujairah in UAE, among others. Our subsidiary, Shiva Cement, is currently investing over 1,500 crores in a 1.36 MTPA clinker unit project to be established in Sundergarh, Odisha. The project includes setting up a 1 MTPA grinding unit and associated facilities.

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# WIDE RANGE OF SOLUTIONS



## TILE ADHESIVE, GROUT AND CLEANER

**MORTAR** 





## **PRECISION STEEL GROUTS**

WATERPROOFING



# Creating Customized Construction Solutions for your Unique Needs...







## TILE ADHESIVE FOR FLOOR & WALL- CERAMIC TILES

## PRODUCT DISCRIPTION

JSW Tylfix Type 1 is a polymer modified cement based powder tile adhesive for fixing all type of ceramic, clay tiles, It is suitable for both vertical and horizontal application. It gives excellent bond on exterior cementitious surfaces like plaster or concrete etc.

## **FEATURES**







### **4 BENEFITS**

- Easy to use Just add water as per recommended W/P ratio on site and ready to use.
- Can be used in internal dry areas, for floor as well as wall application.
- Better adhesive bond strength & Bonds to various cement-based substrates.
- · Self-curing properties.

#### **BEST BEFORE**

12 months for sealed pack when stored under cover, out of direct sunlight & damp-proof condition .

#### **COVERAGE**

 Approx. 5 - 6 m<sup>22</sup>/ 20 kg Bag at 3 mm thickness (using 6 mm x 6 mm notch).

#### STANDARD COMPLIANCE

 IS: 15477:2019 TYPE 1, C1T(Cementitious Standard Slip -Resistant) as per EN 12004:2017.

## **TECHNICAL SPECIFICATIONS**

Properties	Results
Tentative mixing ratio (Powder: Water)	3.5 : 1 by volume; 1 : 0.22 by weight
Mixed density	1.7 - 1.9 kg/ ltr
Table flow	180 mm
Open time (IS 15477 : 2019)	Approx. 20 minutes
Adjustability (IS 15477 : 2019)	Approx. 20 minutes
Pot life	Approx. 60 minutes
Tensile adhesion strength as per Is15477 : 2019	≥ 0.5 N/ mm <sup>22</sup>
Application temperature (substrates & materials)	5°C to 35°C
Adhesive thickness	3 - 12 mm
Setting/ trafficable time	24 hours

## **PACK SIZE**





## TILE ADHESIVE FOR FLOOR & WALL & Tile on Tile

### PRODUCT DISCRIPTION

JSW Tylfix Type 2 is a polymer modified cement based powder tile adhesive for fixing All types of ceramic tile, terracotta, pavers, brick vitrified tiles, glass. It is suitable for Flooring and walls, for internal applications & external shaded area, external area, dry & wet area, new construction & renovation, domestic applications, commercial applications.

### **FEATURES**







#### **6 BENEFITS**

- Easy to use just add water on site, ready to use.
- · Ideal product for tile-on-tile applications on floor.
- Sag resistant formula: provides hassle-free application on vertical walls.
- Waterresistant suitable for wet areas.
- Good adhesive bond strength & bonds to various cement-based substrates.
- Low VOC for healthy living.

### **BEST BEFORE**

 $12\,\text{months}$  for sealed pack when stored under cover, out of direct sunlight & damp-proof condition.

#### **COVERAGE**

 Approx. 5 - 6 m<sup>22</sup>/ 20 kg Bag at 3 mm thickness (using 6 mm x 6 mm notch).

### **STANDARD COMPLIANCE**

 IS: 15477:2019 TYPE 2, C2T (Cementitious improved performance slip-resistant) as per EN 12004:2017

### **TECHNICAL SPECIFICATIONS**

Properties	Results
Tentative mixing ratio (Powder: Water)	3.5 : 1 by volume; 1 : 0.22 by weight
Mixed density	1.7 - 1.9 kg / ltr
Table flow	180 mm
Open time (IS 15477 : 2019)	Approx. 20 minutes
Adjustability (IS 15477 : 2019)	Approx. 20 minutes
Pot life	Approx. 120 minutes
Tensile adhesion strength as per Is15477 : 2019	≥ 1.0 N/ mm²
Application temperature (substrates & materials)	5°C to 35°C
Adhesive thickness	3 - 12 mm
Setting / Trafficable time	24 hours

#### **PACK SIZE**

20 kg

### **COLOUR AVAILABLE**

Available in Grey & White colour





## **TILE ADHESIVE FOR GLASS & STONE TILES**

### PRODUCT DISCRIPTION

JSW Tylfix Type 3 is a polymer modified cement based powder tile adhesive for fixing All types of ceramic tiles, clay tiles, basalt tiles, terracotta, pavers, brick, vitrified tiles, glass mosaic tiles, porcelain tiles and all natural stone tiles. It is suitable for Flooring and walls, for internal applications & external shaded area, external area, dry & wet area, new construction & renovation, domestic applications, commercial applications.

## **FEATURES**







#### **7 BENEFITS**

- Easy to use just add water on site, ready to use.
- Ideal product for tiles and stone tiles on exterior wall substrates like plaster or concrete.
- Highly polymer modified provides high adhesion strength to bond with variety of substrates for fixing a variety of tiles and stones.
- Sag resistant formula: provides hassle-free application on vertical walls.
- Water resistant suitable for wet areas.
- Sustain heat ageing, making it ideal for high temperature locations.
- · Low VOC for healthy living

#### **COVERAGE**

- Approx. 5 6 m<sup>2</sup>/ 20 kg Bag at 3 mm thickness (using 6 mm x 6 mm notch).
- Approx.  $2.5 3 \text{ m}^{2}/20 \text{ kg Bag at 6 mm thick ness (using 12 mm x 12 mm notch)}.$

#### **PACK SIZE**

20 kg

#### TECHNICAL SPECIFICATIONS

Properties	Results
Tentative mixing ratio (Powder: Water) Grey	3.5 : 1 by volume; 1 : 0.22 by weight
Mixed density	1.8 - 2.0 kg/ ltr
Table flow	180 mm
Open time (IS 15477 : 2019)	Approx. 30 minutes
Adjustability (IS 15477 : 2019)	Approx. 25 minutes
Pot life	Approx. 120 minutes
Tensile adhesion strength as per Is15477 : 2019	≥ 1.5 N/ mm²
Application temperature (substrates & materials)	5°C to 35°C
Adhesive thickness	3 - 12 mm
Setting/ trafficable time	24 hours

## **BEST BEFORE**

12 months for sealed pack when stored under cover, out of direct sunlight & damp-proof condition.

#### STANDARD COMPLIANCE

IS: 15477:2019 TYPE 3, C2TE (cementitious improved performance slip-resistant with extended open time) as per EN 12004:2017

#### **COLOUR AVAILABLE**

Available in Grey & White colour





## **TILE ADHESIVE FOR LARGE GLASS & STONE TILES AND DRY WALL BOARDS**

## **PRODUCT DISCRIPTION**

JSW Tylfix Type 4 All types of ceramic tiles, clay tiles, basalt tiles, terracotta, pavers, brick, vitrified tiles, glass mosaic tiles, porcelain tiles ,natural stone tiles, large format tiles, marble, large thin/slim tiles, low thickness slabs. It is suitable for Flooring an walls, for internal applications & external area, dry & wet area, fountains and swimming pool, new construction & renovation, domestic applications, commercial applications.

## **FEATURES**





Water Resistant



Better Adhesive

#### **5 BENEFITS**

- Easy to use just add water on site, ready to use.
- Ideal product for tiles and stone tiles on exterior wall substrates like plaster or concrete.
- Highly polymer modified provides high adhesion strength to bond with variety of substrates for fixing a variety of tiles and stones.
- Sag resistant formula: provides hassle-free application on vertical walls.
- Sustain heat ageing, making it ideal for high temperature locations.

#### **COVERAGE**

- Approx. 5 6 m<sup>2</sup> / 20 kg Bag at 3 mm thickness (using 6 mm x 6 mm notch).
- Approx. 2.5 3 m<sup>2</sup> / 20 kg Bag at 6 mm thickness (using 12 mm x 12 mm notch).

#### STANDARD COMPLIANCE

IS: 15477:2019 TYPE 4 'T', C2TES1 (cementitious improved performance slip-resistant, deformable adhesive with extended open time) as per EN 12004:2017

#### **TECHNICAL SPECIFICATIONS**

Properties	Results
Tentative mixing ratio (Powder: Water)	3.5 : 1 by volume; 1 : 0.22 by weight
Mixed density	1.8 - 2.0 kg/ ltr
Table flow	Max 190 mm
Open time (IS 15477 : 2019)	Approx. 40 minutes
Adjustability (IS 15477 : 2019)	Approx. 30 minutes
Pot life	Approx. 120 minutes
Tensile adhesion strength as per Is15477 : 2019	≥ 1.5 N/mm²
Application temperature (substrates & materials)	5°C to 35°C
Adhesive thickness	3 - 12 mm
Setting/ trafficable time	24 hours

#### **BEST BEFORE**

12 months for sealed pack when stored under cover, out of direct sunlight & damp-proof condition.

## **PACK SIZE**

20 kg

#### **COLOUR AVAILABLE**

Available in Grey & White colour





## **TYLFIX GROUT - Cementitious**

## **CEMENT-BASED TILE JOINT FILLER GROUT**

### PRODUCT DISCRIPTION

Tylfix Grout-Cementitious is a polymer-modified, cementbased tile joint filler grouting material, which is highly suitable for filling the joints/gap of all types of tiles. It exhibits water-resistant properties, making it an ideal choice for various applications.

## **FEATURES**









#### **4 BENEFITS**

- Easy to use & Clean: just mix with water, ready to use
- Polymer modified: crack-free, minimum shrinkage & water resistance
- Suitable for varied tile and stones: All ceramics, vitrified tiles, granites, etc.
- Low VOC: For healthy living.

#### **BEST BEFORE**

- 12 months for sealed pack when stored under cover, out of direct sunlight, damp-proof condition and protect from extremes of temperature
- Should be in a dry and covered area.

#### **COVERAGE**

Coverage would dependent upon porosity & contamination of substrate.

#### **SHADES**

\*Available in Multi Smart Colours.

#### **TECHNICAL SPECIFICATIONS**

Properties	Results
Component Appearance	Cementitious Coloured Powder
Tentative Mixing Ratio	1 kg JSW Tylfix Grout : 0.33-0.40 kg Water
(JSW Tylfix Grout : Water)	(2.5-3:1 by weight)
Mixed Density	1.40 - 1.80 kg/ltr
Pot Life @ 27+20°C Min.	45 minutes
Joint Width	Up to 3 mm
Application Temperature	10°C to 35°C
Light Foot Traffic	24 hours
Regular Traffic	7 Days
Final Curing Time	28 days

#### **PACK SIZE**





## TYLFIX EXPOXY GROUT

## **EPOXY BASED JOINT FILLER**

### PRODUCT DISCRIPTION

TYLFIX EXPOXY GROUT is a three-component color-fast, stain and chemical resistance, hard wearing and impervious tile joint epoxy resin-based grout specifically designed for use in application of ceramic tiles, vitrified tiles, semi-vitrified tile, glass mosaic tiles, metal tiles,

## **FEATURES**



Non Shrink



Decorative and Glossy Finish



Extremely durable and completely waterproof

## **7 BENEFITS**

- High Stain, Germ and Chemical Resistance
- Hygiene, Antibacterial and does not allow fungal growth
- High Strength Non-Shrinkage Grout
- Decorative and Glossy Finish
- Water and Shock resistance
- High quality stable color quartz
- Extremely durable and completely waterproof

#### **BEST BEFORE**

18 months from the date of manufacturing in the original unopened manufacturer's packaging. Store in clean dry place away from moisture

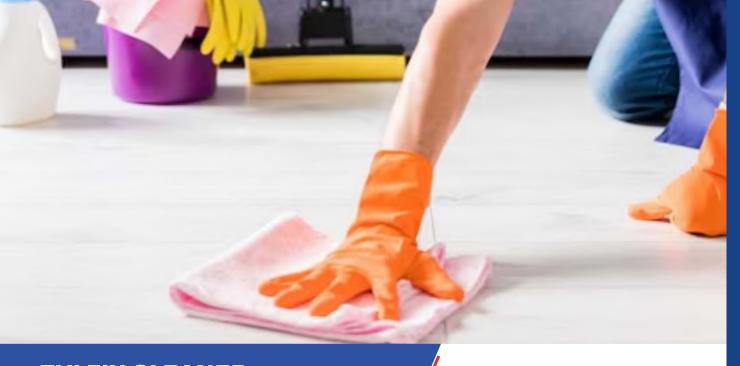
#### **COVERAGE**

Coverage would dependent upon porosity & contamination of substrate.

#### **TECHNICAL SPECIFICATIONS**

Properties	Results	
Test parameter	Standard Requirement	
Water Cleanability	> 80 Min	
Initial Setting Time	> 120 Min	
Service Setting Time	£7 Days	
Shrinkage 7 Days	⟨ 0.25%	
Sag in Vertical Joints	No change in the shape of the joint	
Bond strength to Quarry tile	> 1000 psi (6.87 MPa)	
Compressive Strength @ 7 Days	> 1000 psi (6.87 MPa)	
Tensile Adhesion Strength @ 7 Days	> 1000 psi (6.87 MPa)	
Thermal Shock	> 500psi(3.44MPa)	
Abrasion Resistance ISO 13007-4;EN 12808-2	£ 250mm3	

#### **PACK SIZE**



## **TYLFIX CLEANER**

## STRONG PERFORMANCE CLEANER

## PRODUCT DISCRIPTION

Tylfix Cleaner is a strong performance rapid active cleaner and degreasing solution for use on tiles, bathtubs, wash basin, privy basin and concrete etc. It is used to clean whitish spot/ layer as normally observed in the bathroom under plastic/ metal buckets (normal detergent is not helpful) with ease.

## **FEATURES**







No Residual Mark



Cleans all types

### **6 BENEFITS**

- Easy to use: Just mix with water & clean the surface.
- Removes difficult stains easily: Fast & effective.
- Degreases the tile surface easily for soaps, scum, efflorescence, mineral deposit.
- Cleans all types of tile like ceramic, porcelain & vitrified tile and grout.
- Protects the color & shine of tile.
- Does not damage joints between ceramic tiles, even those grouted with colored products.

#### **BEST BEFORE**

12 months for sealed pack when stored under cover, out of direct sunlight & damp-proof condition.

#### **COVERAGE**

Coverage would dependent upon porosity & contamination of substrate.

#### **TECHNICAL SPECIFICATIONS**

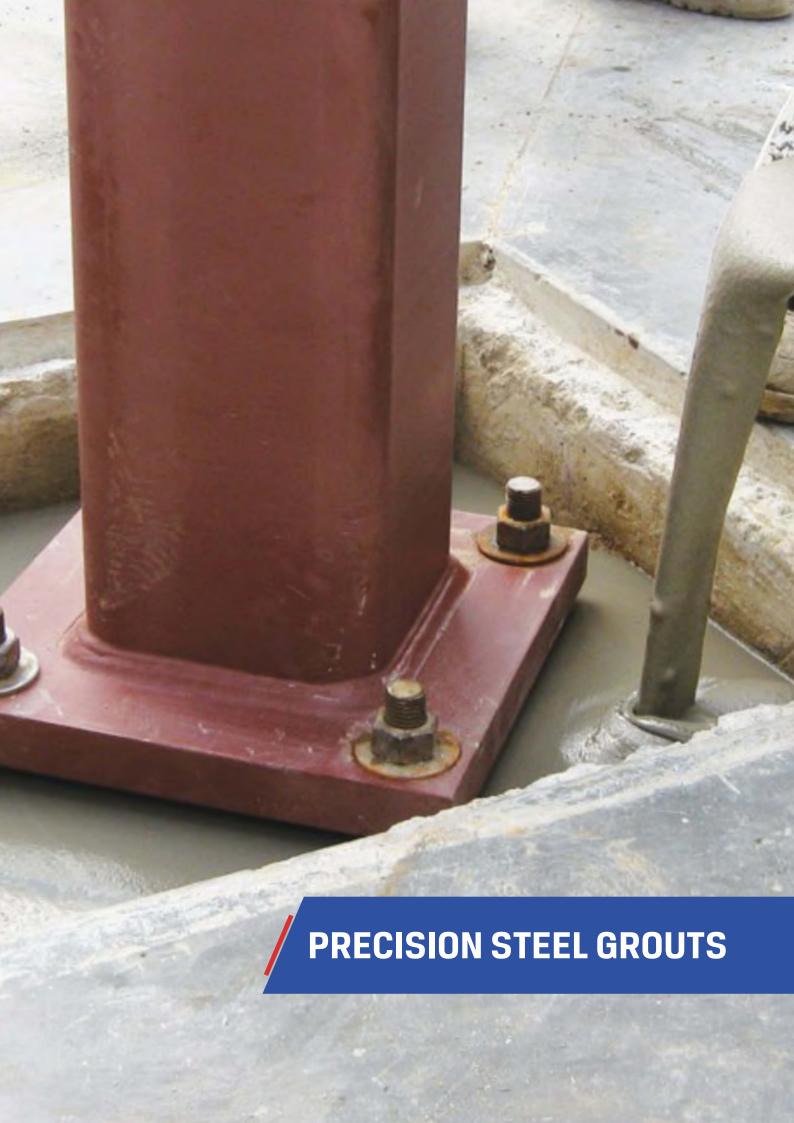
Properties	Results
Appearance	Reddish color liquid
Density	1.02 0.02 kg/ltr
Viscosity	Equal to water
Soaking time	5 minutes
Dilution with water	Depend upon substrate condition & stain severity

#### **PACK SIZE**

11tr

5 Ltr







## **SG1FLOWABLE**

## **HIGH PERFORMANCE & HIGH STRENGTH GROUT**

## **PRODUCT DISCRIPTION**

JSW Steel Grout SG 1 is a cementitious flow-able non shrink high strength grout for precision application like repair RCC Structures heavy machinery foundations etc.

## **FEATURES**







#### **8 BENEFITS**

- · High early strength and highly flow able
- Highly Durable
- Non Expansive
- Non Shrink
- High Compressive, flexural & Tensile Strength
- Early loading
- Self-Compacting
- · High Bond Strength

### **BEST BEFORE**

6 months from the date of manufacturing if stored in unopened original packing, under shaded area in dry and moisture free conditions

### **COVERAGE & CLASS**

- Yield 12.5 litre per 25 kg bag
- 100 MPa Grout complying to ASTM C 1107/1107M: 20 & CRD-C-621-83

#### **TECHNICAL SPECIFICATIONS**

Properties	Results
Appearance	Free Flowing Powder
Color	Cementitious Grey
Water / Powder Ratio	0.11 - 0.13
Flow on Table @ 30°C in mm	Min. 260 mm
Fresh Wet Density, Kg/m³	2200 - 2400
Initial Setting Time, Minutes	> 200
Final Setting Time, Minutes	⟨ 600
Pot Life @ 30°C	45 - 60 minutes

#### **PACK SIZE**





## **SG 2 FLOWABLE**

## **HIGH PERFORMANCE GROUT**

## PRODUCT DISCRIPTION

JSW Steel Grout SG 2 is a cementitious highly flow-able non shrink high strength grout for precision application like repair RCC Structures, heavy machinery foundations etc.

## **FEATURES**







#### **8 BENEFITS**

- High early strength and highly flow able
- Highly Durable
- Non Expansive
- Non Shrink
- High Compressive, flexural & Tensile Strength
- Early loading
- Self-Compacting
- High Bond Strength

#### **BEST BEFORE**

6 months from the date of manufacturing if stored in unopened original packing, under shaded area in dry and moisture free conditions.

### **COVERAGE & CLASS**

- Yield 12.5 litre per 25 kg bag
- 80 MPa Grout complying to ASTM C 1107/1107M: 20 & CRD-C-621-83

## **TECHNICAL SPECIFICATIONS**

Properties	Results
Appearance	Free Flowing Powder
Color	Cementitious Grey
Water/ Powder Ratio	0.13 - 0.15
Flow on Table @ $30^{\circ}$ C in mm	Min. 260 mm
Fresh Wet Density, Kg/m³	2200 - 2400
Initial Setting Time, Minutes	> 200
Final Setting Time, Minutes	⟨ 600
Pot Life @ 30°C	45 - 60 minutes

#### **PACK SIZE**





## **SG 3 FLOWABLE**

## **GENERAL PURPOSE PRECISION GROUT**

## PRODUCT DISCRIPTION

JSW Steel Grout SG 3 is a cementitious highly flow-able non shrink high strength grout for precision application like repair RCC Structures, heavy machinery foundations etc.

## **FEATURES**







#### **8 BENEFITS**

- · High early strength and highly flow able
- Highly Durable
- Non Expansive
- Non Shrink
- High Compressive, flexural & Tensile Strength
- Early loading
- Self-Compacting
- · High Bond Strength

## **BEST BEFORE**

6 months from the date of manufacturing if stored in unopened original packing, under shaded area in dry and moisture free conditions.

#### **COVERAGE & CLASS**

- Yield 12.5 litre per 25 kg bag
- 60 MPa Grout complying to ASTM C 1107/1107M: 20 & CRD-C-621-83

#### **TECHNICAL SPECIFICATIONS**

Properties	Results
Appearance	Free Flowing Powder
Color	Cementitious Grey
Water/ Powder Ratio	0.13 - 0.15
Flow on Table (a) 30°C in mm	Min. 260 mm
Fresh Wet Density, Kg/m³	2200 - 2400
Initial Setting Time, Minutes	> 200
Final Setting Time, Minutes	⟨ 600
Pot Life @ 30°C	45 - 60 minutes

#### **PACK SIZE**





## **JSW ROAD INSTA CURE**

# CEMENTITIOUS FLOWABLE NON-SHRINK RAPID HARDENING GROUT FOR ROAD APPLICATION

## PRODUCT DISCRIPTION

JSW Road Insta Cure is a cementitious flowable non shrink, rapid hardening mix for precision application like repair Road cracks/Structures instantly. JSW Road Insta Cure is the blending of cement, cementitious materials, along with graded fillers and polymers. JSW Road Insta Cure is engineered designed for precision repair grout where it is essential to withstand crack free road repairs with instant cure fast setting and rapid hardening.

## **FEATURES**







Very rapid strength generation and hardening

#### **6 BENEFITS**

- Easy to use
- Very fast setting
- Very rapid strength
- Non Shrink repair
- Highly Durable
- Self compaction

#### **BEST BEFORE**

6 months from the date of manufacturing if stored in unopened original packing under shade in dry and moisture free conditions.

#### **COVERAGE & CLASS**

- Minimum Yield 11 ltr per 25 kg bag
- \*Coverage will vary depending on crack size and substrate smoothness and evenness

### **TECHNICAL SPECIFICATIONS**

Properties	Results
Appearance	Free Flowing Powder
Color	Cementitious Light Grey
Water/ Powder Ratio	0.135 - 0.145
Flow on Table @ $30^{\circ}$ C in mm	Min. 260 mm
Fresh Wet Density, Kg/m³	2200 - 2400
Initial Setting Time, Minutes	> 10
Final Setting Time, Minutes	⟨ 180
Pot Life @ 30°C	10 - 15 minutes

## **TECHNICAL SPECIFICATIONS**

Properties	Results
2 Hrs.	20 MPA
3 Hrs.	30 MPA
24 Hrs.	45 MPA
28 Davs	80 MPA

## **PACK SIZE**





## STEEL GROUT - GUN GRADE

## **PUMPABLE GUN GRADE MORTAR** FOR TIE - ROD HOLE APPLICATION

### PRODUCT DISCRIPTION

JSW SteelGrout - Gun Grade is a ready mix cement-based, self curing, polymer enriched, pumpable /gun grade mortar. It is made with high quality polymer additives and selected fillers.

## **FEATURES**









#### 9 BENEFITS

- Single Component, Easy to use just water to be added at site,
- Consistent quality
- Waterpro of joints/holes
- Non-curing and binds better to substrate
- Uniform and smooth finish
- Convenient to apply
- Faster completion of work
- Negligible wastage
- Nil shrinkage

#### **BEST BEFORE**

12 months from the date of manufacturing if stored in unopened original packing, under shade in dry and moisture free conditions.

### **COVERAGE & CLASS**

- Always add powder to water.
- Do not add excess water than recommended.
- Coverage per Kg @ 6 mm dia holes\*

### **TECHNICAL SPECIFICATIONS**

Properties	Results
Appearance	Free Flowing Powder
Color	Cementitious Light Grey
Bulk density	1450-1550 Kg/cum
Water powder ratio	25-27 % by weight
Pot life	90 mins @ 27°C
Compressive strength  a 28 days	8 - 10 Mpa
300 mm depth	Cylindrical holes 13-14 holes
Shrinkage	Nil
Water curing	Self curing
Flexural strength @ 28 days	2-3 Mpa

## **PACK SIZE**







## **ENDURO PLAST**

## **READY MIX PLASTER**

## **PRODUCT DISCRIPTION**

Single component rendering mortar with a ratio of graded inert sand with cement and polymers for applications in civil construction works.

## **FEATURES**





12 BENEFITS

- Cohesive & workable mortar
- Less water consumption
- Increased Curing efficiency
- · Improves bond strength with applied substrate
- Reduce Rebound losses
- Better tensile and flexural strength
- Increase in durability
- · Faster rate of application
- Extended application time
- Uniform and smooth finishes
- Reduces wall porosity & voids
- Provides enhanced coverage and saves material

### **BEST BEFORE**

 $6\,months$  from date of manufacturing,when stored in a dry & sealed condition.

#### **COVERAGE**

- **For Walls** In w/p ratio of 0.14-0.16 to provide thickness of 5-20 mm, at a coverage of 0.175 TO 0.20 Kg/sgft/mm.
- For Ceilings In w/p ratio of 0.14-0.16 to provide thickness of 5-20 mm, at a coverage of 0.175 to 0.20 Kg/sqft/mm.
- Water Demand 6.0 7.0 ltrs for 40 Kg

#### **TECHNICAL SPECIFICATIONS**

Properties	Results
Pot life at 30°C min	90-120
Compressive Strength at 28 days, Mpa	6-8
Tensile Strength at 28 days, Mpa	Min.1.0
Flexural Strength at 28 days, Mpa	Min.1.5
Water Absorption%	Max 5
Rebound Loss %	Max 2

## **PACK SIZE**





## **BLOCK GRIP ADHESIVE**

## **EXCELLENT ADHESIVE FOR CURED BLOCKS**

### PRODUCT DISCRIPTION

It's a single-component thixotropic thin-bed fixing and jointing block grip adhesive. It contains an aggregate ratio of graded inert sand with cement and polymers for applications as a bond-gripping material in civil construction works. It is recommended for fixing and jointing AAC blocks, ALC blocks, Cement mortar blocks, Cellular concrete blocks, Fly ash bricks and Composite cement blocks.

## **FEATURES**







### 9 BENEFITS

- Cohesive & workable mortar
- High tensile & flexural with strong bonding
- Consistent spread for faster rate of application
- Uniform and smooth joint finishes
- Reduced surface porosity & voids
- Better coverage
- Self curing
- Shock and impact resistance
- Resists water seepage

#### **BEST BEFORE**

12 months for sealed pack when stored in dry and sheltered area; kept out of direct sunlight, damp-proof conditions.

### **COVERAGE**

 Approx 5.0 - 6.0 m2 / 40 kg Bag at 3mm thickness (using 3 mm x 3 mm notch)

## **TECHNICAL SPECIFICATIONS**

Properties	Results
Pot life @ 30°c	120 minutes
Compressive strength a 28 days, Mpa	8-10 MPa after 28 days
Tensile splitting strength	0.45 to 0.6 MPa for 3 mm-6 mm @ 28 days valid for 90% transfer
Fresh wet density (gm/cc)	1.65-1.75 gm/cc
Bulk Density	1.15-1.25 gm/cc
pH of mix	10-12
Workability of mix (hours)	Approx. 2hrs-3hrs
Water Demand	0.25 - 0.27

### **PACK SIZE**





## **DURAFLOR**

## FLOOR HARDENER

## **PRODUCT DISCRIPTION**

DURAFLOR is a high-quality durable cementitious-based, nonmetallic, non-oxidising concrete Floor Hardener, free from any organic impurities. This hard wearing dry shake powder is a wellmanufactured, graded composition of select cement, additives, graded aggregates & polymers to ensure ease of placing and finishing. This is best-suited for residential, commercial and industrial floors to deliver a monolithic, high abrasion-resistant floor. The finished surface with Floor Hardener provides better impact resistance and also protects the surface from gas, oil and chemical attack owing to its non-skid, anti-slip properties.

## **FEATURES**









Chemical & Alkali resistance

### **8 BENEFITS**

- Smooth and hard surfaces prevent dust generation
- High abrasion & impact resistance
- Resists erosion due to heavy vehicular or traffic movement
- Low water absorption
- Chemical & Alkali resistance
- Non oxidising, hence no corrosion or erosion
- Forms monolithic bond with base concrete
- Ideal for interior and exterior application

#### **BEST BEFORE**

- 06 months from date of manufacturing in un-opened
- Should be in a dry and covered area.

#### **TECHNICAL SPECIFICATIONS**

Properties	Results
Appearance	Free flowing powder
Colour	Grey
Water Absorption%	9.4
Hardness Mohs	7
Resistance to wear (mm)	2.61
Chemical Resistance	-
5% Acid Solution	No change in material integrity
5% Alkali Solution	No change in material integrity

#### COVERAGE

- Application rate intended traffic use.
- General vehicular traffic 3kg/m²; Medium vehicular traffic - 5kg/m<sup>2</sup>; Heavy vehicular traffic - 7kg/m<sup>2</sup>

#### **PACK SIZE**





## **FLOORSCRETE**

## **FLOOR HARDENER**

## **PRODUCT DISCRIPTION**

JSW Floorscrete is ideal as a final protective levelling screed over waterproofing coating, warehouse, parapet and work shop floors and as an underlayment for marble as well as large tile floorings.

## **FEATURES**



High compressive strength



t

Chemical & Alkali

### **7 BENEFITS**

- Excellent adhesion
- · High compressive strength
- Faster screed applications from 20 mm to 60 mm thickness in single layer
- Ready for subsequent application after 48
- Single Component
- Ready to use
- Well graded good quality sand and fillers

#### **BEST BEFORE**

 Floor Screed has a shelf life of 12 months from the date of manufacture.

### **TECHNICAL SPECIFICATIONS**

Properties	Results
Fresh wet density	2250-2350 kg/m*
Pot life	1 hour
Compressive strength (a) 28 days	Min 25 N/mm*
Curing	3-5 days 3 times a day

## **COVERAGE**

 Coverage For 25 Kg Bag - 11.25 - 12.5 Sqft @ 12 Mm thickness

## **PACK SIZE**





## **MICRO CONCRETE**

## **High Strength Non Shrink Micro Concrete**

## PRODUCT DISCRIPTION

**JSW Micro Concrete** is cementitious polymer modified, high performance, high strength, non-shrink material specially designed for micro concreting and jacketing applications of repair areas where the concrete has deteriorated.

## **FEATURES**









### 9 BENEFITS

- Single Component, Easy to use just water to be added at site,
- · Highly flowable
- Can easily reach the rare corner of the structure
- Uniform and smooth finish
- Early de-shuttering
- · High ultimate strength and durable
- Faster completion of work
- Negligible wastage
- Nil shrinkage

### **BEST BEFORE**

 12 months from the date of manufacturing if stored in unopened original packing, under shade in dry and moisture free conditions.

#### **TECHNICAL SPECIFICATIONS**

Properties	Results
Appearance	Free Flowing Powder
Color	Cementitious Light Grey
Fresh wet density	2200 - 2300 kg/m <sup>3</sup>
Water powder ratio	0.10 – 0.12 by weight
Pot life	30 Mins at 27°C
Compressive strength @ 28 days	Min 50 Mpa
Shrinkage	Nil
Yield	12 Ltrs / Pack of micro concrete (25 Kg)

#### **COVERAGE**

- Application rate intended traffic use.
- General vehicular traffic 3kg/m²; Medium vehicular traffic - 5kg/m²; Heavy vehicular traffic - 7kg/m²

## **PACK SIZE**





## **SMARTBLOK IWC+200**

# INTEGRAL WATERPROOFING COMPOUND SUITABLE FOR ALL TYPES OF CONCRETE & MORTAR



## PRODUCT DISCRIPTION

**JSW Smart Blok IWC+200** is an Integral liquid waterproofing compound composed of surface active plasticizers, polymers and additives. It reduces the water demand (6-8% reduction) with the required work-ability in mortar and concrete.

### **FEATURES**



Waterproofing Compound.



Portland and all type of Blended Cement compatible.



Improve Concrete & Mortar strenght.

#### **8 BENEFITS**

- Workability: Improves workability and cohesiveness of the mortar and concrete.
- Anti Bleeding: Reduces bleeding and segregation in mortar and concrete.
- Compatibility: Being liquid, easily dispersible and compatible with mortar/concrete mixes.
- Low Permeability: It reduces water penetration in mortar and concrete.
- Durability: Improves durability due to reduction in permeability in concrete (by improving cohesiveness in concrete) and hence protects steel against corrosion in a better way.
- Shrinkage: Reduces shrinkage crack development in plaster and concrete.

## **BEST BEFORE**

24 months for sealed pack when stored in dry and under cover, Store out of direct sunlight & damp-proof condition.

#### **TECHNICAL SPECIFICATIONS**

Description	Test Method	Results
Appearance	Visual	Free flowing liq.
Color	Visual	Dark brown
Sp. Gravity @ 27°C	-	1.08 - 1.13
Non volatile content	-	23 ± 1
рН	-	7-9
Setting time, min	IS 2645 : 2003	Passes
Water permeability	IS 2645 : 2003	Passes
Compressive strength N/mm2	IS 2645 : 2003	As per standard
Chloride content	IS 2645 : 2003	0.02%

## **DOSAGE**

- 200 ml per 50kg bag of cement
- Site trials shall be carried out to validate the optimum dosage.

## **PACK SIZE**

1 litre

5 litres

10 litres

20 litres







## **SMARTBLOK SBR ULTRA**

## **ECO-FRIENDLY MULTIPURPOSE SBR POLYMER** FOR WATER PROOFING & REPAIR

## PRODUCT DISCRIPTION

JSW SmartBlok SBR Ultra is a selective eco-friendly styrene butadiene latex based polymeric material. This is ready to use for multi-purpose water proofing applications at leakage and seepage prone locations of new constructions including bathroom, toilet, water tank, small terraces etc.

## **FEATURES**



Performance Modifier & Bonding Agent for Old to New (Mortar, Concrete).



in Proof bond strength



## **5 BENEFITS**

- Crack prevention: The improved flexural strength prevents the crack generation.
- Hardness: It improves the surface hardness and prevents dust generation
- **Shrinkage:** It reduces the drying shrinkages.
- Bonding: It provides improved bonding for concrete & mortar for new construction as well as repair works.
- **Erosion & Corrosion:** The reduces Erosion and Corrosion.

## **BEST BEFORE**

- 12 months from the date of manufacturing.
- Store in cool and dry place in unopened condition. Prevent from direct sunlight

#### **TECHNICAL SPECIFICATIONS**

Description	Results
Nature/Appearance	Milky white liquid with translucence
Material type	Modified eco-friendly SBR latex
Smell	Characteristic sweet smell
рН	7-8
Total Active Content (by mass)	38±1 %
Specific Gravity at 25 °C	1.0-1.05

#### **COVERAGE**

- Water Proofing: Min 7-8 Sq.ft/Kg of Slurry for 2 coats
- Bond Coat: 20-21 Sq.ft/Kg of slurry for 1 coat

#### **PACK SIZE**

1kg

5 kg

10 kg





## **SMARTBLOK SBR ULTRA PLUS**





### PRODUCT DISCRIPTION

JSW SmartBlok Ultra PLUS is a selective eco-friendly styrene butadiene latex based high performance polymeric material. This is ready to use for multi-purpose water proofing applications at leakage and seepage prone locations of new constructions including bathroom, toilet, water tank, small terraces etc.

#### **FEATURES**



Multipurpose Admixture & Bonding Agent for Old to New (Mortar Concrete)



High Performance bond strength. Watertight masonry jointing



Versatile - Compatible with all common hydraulic cements.

#### **6 BENEFITS**

- Crack prevention: The improved flexural strength prevents the crack generation.
- Hardness: It improves the surface hardness and prevents dust generation
- **Shrinkage:** It reduces the drying shrinkages.
- Bonding: It provides improved bonding for concrete & mortar for new construction as well as repair works.
- **Erosion & Corrosion:** The reduces Erosion and Corrosion.
- Eco-Friendly: Made using natural materials & ingredients

#### **BEST BEFORE**

- 12 months from the date of manufacturing.
- Store in cool and dry place in unopened condition. Prevent from direct sunlight

#### **TECHNICAL SPECIFICATIONS**

Description	Results
Nature/Appearance	Milky white liquid with translucence
Material type	Modified eco-friendly SBR latex
Smell	Characteristic sweet smell
рН	7-8
Total Active Content (by mass)	43±1 %
Specific Gravity at 25 °C	1-1.05

#### **COVERAGE**

- Water Proofing: Min 7-8 Sq.ft/Kg of Slurry for 2 coats
- Bond Coat: 20-21 Sq.ft/Kg of slurry for 1 coat

#### **PACK SIZE**

1 kg

5 kg







## **SMARTBLOK UNIVERSAL POLYMER**

## WEATHERPROOF HIGH PERFORMANCE ACRYLIC POLYMER FOR WATERPROOFING & REPAIR APPLICATION

## **PRODUCT DISCRIPTION**

JSW SmartBlok Universal Polymer is a modified acrylic emulsion based material. This material is specially designed for exterior water proofing. Addition of this material provides improved adhesion at old to new concrete and plaster. It is a universal bonding material for concrete and masonry repair.

## **FEATURES**









#### **6 BENEFITS**

- Crack prevention: The improved flexural strength prevents the crack generation.
- Hardness: It improves the surface hardness and prevents dust generation
- **Shrinkage:** It reduces the drying shrinkages.
- Bonding: It provides improved bonding for concrete & mortar for new construction as well as repair works.
- Erosion & Corrosion: This reduces erosion and corrosion.
- Flexible Coating: This provides a flexible coating for exterior and interior application

#### **BEST BEFORE**

- 12 months from the date of manufacturing.
- Store in cool and dry place in unopened condition. Prevent from direct sunlight.

## **TECHNICAL SPECIFICATIONS**

Description	Results
Nature/Appearance	Milky white liquid with translucence
Material type	Modified Acrylic
рН	7-8
Total Active Content (by mass)	34±1 %
Specific Gravity at 25 °C	1-1.05

#### **COVERAGE**

- Water Proofing: Min 7-8 Sq.ft/Kg of Slurry for 2 coats
- Bond Coat: 20-21 Sq.ft/Kg of slurry for 1 coat

#### **PACK SIZE**

1kg

5 kg

10 kg





## **SMARTBLOK CEM 2K ULTRA**

# **High Performance Acrylic Cementitious Waterproofing Coating**



## PRODUCT DISCRIPTION

**JSW SmartBlok Acrycem 2K** is a two-component water proofing product, based on acrylic and cementitious materials. It forms an excellent flexible film coating on the concrete and mortar substrate, that provides superior water proofing

#### **FEATURES**



Anti Efflorescence



Good Crack Bridging Ability



Excellent Adhesion

### **4 BENEFITS**

- Flexible Film: It forms flexible film coating that accommodates cracks and provide better hiding on the surface.
- Water Resistance: It provides excellent resistance to water uptake.
- Adhesion: It exhibits superior adhesion to concrete and masonry surfaces.
- Eco-Friendly: It is composed of eco-friendly materials with low VOC.

## **BEST BEFORE**

- 12 months from the date of manufacturing.
- Store in cool and dry place in unopened condition.
   Prevent from direct sunlight.

#### **TECHNICAL SPECIFICATIONS**

Description	Results
Nature/Appearance	Two component (1 part liq. Polymer + 2 part powder)
Appearance	Liquid Part: Milky White Powder: Grey
Wet mix slurry density	1.5-1.6 g/cc
pH of slurry	9-11
Pot life of the Mix at 30 °C	Minimum 45 min.
Elongation at break of dry film	Minimum 60%

## **COVERAGE**

- 7-8 Sq.ft/Kg for 2 Coats
- Coverage area will vary depending upon the Substrate undulations & porosity.

## **PACK SIZE**

15 kg 30 Kg







## **SMARTBLOK CEM 2K ULTRA PLUS**

## **Superior Performance Acrylic Cementitious Waterproofing Coating**

## **PRODUCT DISCRIPTION**

JSW SmartBlok Cem 2K Ultra Plus is a modified polymer and cementitious hybrid Superior performance, ultra-flexible two-part water proofing coat.

## **FEATURES**









#### **4 BENEFITS**

- Water Blocking: It creates a water impermeable film coat, adhered on the cementitious substrates. This covers all the cracks and pin-holes and water passages to ensure ultimate resistance towards water seepage.
- Ultra-Flexibility: The formed film possesses excellent flexibility. This ensure better crack-bridging ability.
- Adhesion: It exhibits excellent adhesion on old/new concrete, mortar and other masonry surfaces.
- Eco-friendly: It is composed of eco-friendly materials with low VOC. This makes it application-friendly and ecofriendly.

#### **BEST BEFORE**

- 12 months from the date of manufacturing.
- Store in cool and dry place in unopened condition. Prevent from direct sunlight.

#### **TECHNICAL SPECIFICATIONS**

Description	Results
Nature/Appearance	Two component (1 part liq. Polymer + 1.4 part powder)
Appearance	Liquid Part: Milky White Powder: Grey powder
Wet mix slurry density	1.5-1.6 g/cc
pH of slurry	9-11
Pot life of the Mix at 30 °C	Minimum 45 min.
Elongation at break of dry film	Minimum 130%

## **COVERAGE**

- 7-8 Sq.ft/Kg for 2 Coats
- Coverage will vary depending upon the Substrate undulations & porosity.

#### **PACK SIZE**

12 Kg 24 Kg





## **SMARTBLOK PU HYBRID**

## SINGLE COMPONENT POLYURETHANE WATERPROOFING COATING

## PRODUCT DISCRIPTION

SMARTBLOK PU HYBRID is a unique product specially designed for all R.C.C. structures. The product is a singlecomponent, roller, brush, spray applied waterproofing membrane based on modified polyurethane hybrid technology, flexible elastomeric polyurethane UV resistance water based waterproofing coating. It provides resistance to moisture, salts, and water penetration into concrete and masonry surfaces.

## **FEATURES**









Breathable

#### **10 BENEFITS**

- Solvent free, safe & non corrosive
- Easily applied using with brush, roller or spray
- Flexible & seamless coating
- Weather proof & UV resistant
- Resistant to carbonation.
- Good cleanability & dirt free Waterproofing protection coat
- Breathable
- Resistance against algae & fungi.
- Resistant to chloride attack.

#### **BEST BEFORE**

12 months

## **TECHNICAL SPECIFICATIONS**

Description	Results
Base	Polyurethane Hybrid
Colour	White
Consistency	Smooth thick liquid
Consumption	Min 1.5 Kg per Sq. mt.
Crack Bridging	Up to 1.5mm
Specific Gravity	1.25 + 0.05
Elongation	> 400%
Application Temperature	5° to 40°C
Drying Time	24 hours
Tensile Strength	3 N/mm²
Full Curing	7 Days

#### **COVERAGE**

Min 1.5 Kg per Sq. mt.

## **PACK SIZE**







## PRODUCT DISCRIPTION

SmartBlok PU Primer is a single-component ready-to-use primer for acrylic as well as PU hybrid coatings. SmartBlok PU Primer fills up the micropores as well as improves the adhesion of the subsequent coating.

### **FEATURES**







Excellent Surface Bondina

### **4 BENEFITS**

- Zero Solvent Content
- **High Penetration Properties**
- **Excellent Surface Bonding**

### **BEST BEFORE**

12 months

## **SMARTBLOK PU PRIMER**

## **ACRYLIC-BASED PRIMER FOR WATERPROOFING COATINGS**

#### **TECHNICAL SPECIFICATIONS**

Description	Results
Appearance	Liquid
Color	Milky White
Specific Gravity	1.02 + 0.05

### **COVERAGE**

Unpainted surfaces should be primed with SmartBlok PU primer which should be applied at the rate of 10-12 Sqm per kg.

## **PACK SIZE**





## **SMARTBLOK WB EP PRIMER**

## **EPOXY RESIN BASED PRIMER FOR CONCRETE**



## PRODUCT DISCRIPTION

**SMARTBLOK WB EP PRIMER** is a two-component epoxy based primer with good penetrating properties for concrete surfaces. It is ideal for priming concrete surfaces prior to the application of any of the resin based floor toppings protective coatings or epoxy repair mortars.

## **FEATURES**



Suitable for application even on damp surfaces



Increases the bonding strength between the surface & waterproofing coating.

## **4 BENEFITS**

- Ease of application (roller or brush)
- Excellent anchoring to absorbent and non-absorbent surfaces.
- Can be applied on moist surfaces, without loss of adhesion.
- Can be diluted with water.

### **BEST BEFORE**

12 months

## **TECHNICAL SPECIFICATIONS**

Description	Results
Pot life at 20°C	90 Minutes
Pot life at 30°C	30 Minutes

#### **COVERAGE**

· Approximate coverage rate Approx. 10 Sq.mt per litre

#### **PACK SIZE**

15 Kg (Part A 10 Kg & Part B 5 Kg)







## **SMARTBLOK PU 2K INJECT GROUT**

Polyurethane injection grout as a resin for the elastic sealing of cracks in concrete structures

## **PRODUCT DISCRIPTION**

- SmartBlok PU 2K INJECT GROUT is a two component solvent free, polyurethane system consisting of a resin component (Part A) and a special type of isocyanate (Part B)
- This system is ideally suitable for the elastic sealing of cracks in concrete surfaces as well as areas suffering from water leakage problems.
- The use of SmartBlok PU 2K Inject Grout as such is depending on the amount of water expected. In case the crack is dry or moist, the resin can be used directly into the crack

## **FEATURES**







Deeper penetration



Low VOC content



Reduced Odor

#### **6 BENEFITS**

- Low viscosity significantly helping in deep penetration in tiny cracks
- · Can be easily drilled and injected
- Flexible resin to withstand crack movements
- Permanent solution to water seepage
- · Non-destructive water stoppage
- Eco-friendly

#### **BEST BEFORE**

• 12 months

#### **TECHNICAL SPECIFICATIONS**

Properties	Part A	Part B
Colour	Yellowish	Dark Brown
Density (g/cc)	1.040 ± 0.02	1.220 ± 0.02
Mixed Viscosity of the mixture at 30°C mPas	250 - 600 cps	250 - 600 cps
Mixing Ratio by volume	2	1
Potlife at 20°C (minutes)	150 minutes	150 minutes
Shore Hardness	40 A	40 A
Mixed Density (g/cc)	1.078	1.078

## **PACK SIZE**

16 kgs pack (10kgs part A and 6kgs Part B)





## **SMARTBLOK FG EPOXY COATING**

## **Epoxy resin coating for potable water** retaining structures



### PRODUCT DISCRIPTION

SMARTBLOK FG EPOXY COATING is a two pack, solvent free, epoxy resin material. It is supplied in pre-measured quantities ready for site mixing and use. The material cures to provide a smooth hygienic and tough finish which is suitable for contact with potable water and food stuffs.

## **FEATURES**



Food grade &



Corrosion



Chemical

### **5 BENEFITS**

- Food grade & Hygienic
- Abrasion resistant
- Aesthetic
- Corrosion resistant
- Chemical Resistant

### **BEST BEFORE**

12 months

### **TECHNICAL SPECIFICATIONS**

Description	Results
Volume Solids	100%
Consistency	Brush
Adhesion	> 2.5 N/mm <sup>2</sup>
Pot life @ 30°C	45 mins
Final curing	7 days
Elongation at Break	30%
Tensile Strength	20 N/mm <sup>2</sup>
Mixing Ratio	85:15

#### **COVERAGE**

- SmartBlok FG Epoxy Coating covers approx 3-5 sqm per litre per coat.
- The coverage figure is theoretical due to wastage

### **PACK SIZE**

20Kg (17 Kg Part A & 3Kg Part B)







## KRYSTA LEAKPROOF

## INTEGRAL CRYSTALLINE WATERPROOFING ADMIX FOR CONCRETE AND MORTAR

### **TECHNICAL SPECIFICATIONS**

Properties	Results
Water Penetration	90% Reduction in Depth of Penetration against Control
Water Permeability	56% Reduction in Depth of Penetration against Control
Bulk Density	26.5% water percolation against Control
Resistance to Chloride Penetration (RCPT)	64% Improvement against Control
Compressive Strength	About 12% Increase in Strength against Control

## **PRODUCT DISCRIPTION**

JSW KRYSTA LEAKPROOF is an integral crystalline waterproofing admix. It is a capillary waterproofing compound for concrete and mortar. It comes in a dry powder form and needs to be added to the concrete mix at the time of batching. It consists of selective cementitious material, ultra-fine silica aggregate and various active & proprietary reactive chemicals used for permanent active waterproofing treatment, for concrete and plastering mortar.

### **FEATURES**



Non Toxic. Safe for potable water contact



Permeability

of concrete

#### **8 BENEFITS**

- Remains permanently active
- Self-seals hairline shrinkage cracks up to 0.5 mm in width
- Resists both positive and negative pressure
- Resists very high hydrostatic pressure up to 16 bar head
- Non Toxic. Safe for potable water contact
- Reduces Chloride permeability
- Improves chemical resistance
- Protects steel reinforcement against corrosion

#### **BEST BEFORE**

6 months from date of manufacturing in sealed condition

#### **COVERAGE & CLASS**

Store in a dry and enclosed space in the unpacked condition

## **PACK SIZE**



## **OUR PRODUCTS AT GLANCE**



# TILE ADHESIVE, GROUT AND CLEANER

JSW TYLFIX TYPE 1` | JSW TYLFIX TYPE 2 | JSW TYLFIX TYPE 3 JSW TYLFIX TYPE 4 | JSW TYLFIX GROUT - CEMENTITIOUS TYLFIX CLEANER



## PRECISION STEEL GROUTS

Sq1 FLOWABLE | SG2 FLOWABLE | SG3 FLOWABLE ROAD INSTA CURE | STEEL GROUT - GUN GRADE



## MORTAR

JSW ENDURO PLAST | BLOCK GRIP ADHESIVE DURAFLOR | FLOORSCRETE | MICRO CONCRETE



## **WATERPROOFING**

SMARTBLOK IWC+200 | SMARTBLOK SBR ULTRA SMARTBLOK SBR ULTRA PLUS | SMARTBLOK UNIVERSAL POLYMER SMARTBLOK CEM 2K ULTRA | SMARTBLOK CEM 2K ULTRA PLUS SMARTBLOK PU HYBRID | SMARTBLOK PU PRIMER SMARTBLOK WB EP PRIMER | SMARTBLOK PU 2K INJECT GROUT SMARTBLOK FG EPOXY COATING | KRYSTA LEAKPROOF





### **REGISTERED OFFICE**

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## **MARKETED BY:**

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### **SCAN HERE**

