



...Building on over 200 years' experience

SECRET OF

DURABILITY
SAFE TRUST ECO
STRENGTH FRIENDLY
SUSTAINABILITY
QUALITY

.....
ENGINEERING BOOK
.....

PROTECTING YOUR DREAMS SINCE DECADES

VISION

To continuously grow by serving the needs for strong, safe and sustainable infrastructure.

MISSION

To inspire development of the best civil construction, & offer high quality products for achieving the same.



Core Values

People – the Real Assets

- We will build a team of motivated people and will be known by such Team
 - We will respect our people, motivate them to perform better, reward their contribution and promote their well-being
-

Customers' Happiness

- We will establish a distribution network that helps improving lives of our customers
-

Stakeholders – our Partners

- We will respect the interests of our stakeholders and be responsive to them
-

Best Delivery

- We will always offer outstanding products and support services
-

Social Cause

- We will be good citizens and fulfil our social responsibilities

Table of Contents

ABOUT US.....	1
CEMSEAL'S ESTEEMED CUSTOMERS & PROJECTS.....	2
TESTIMONIALS.....	3
OUR PREMIUM PRODUCTS.....	4
CEMPROOF WP+.....	5
CONFLO.....	6
BAR SOL.....	7
BLOCK JOINTING MORTAR.....	8
SBR SUPER LATEX.....	9
CRP.....	10
CEMCRETE.....	11
CEMFIN 2K.....	12
CEMPLAST.....	13
CEMTILE PRIMER.....	14
CEMSEAL SLURRY BOND.....	15
NSA BRONZE.....	16
NSA SILVER.....	17
NSA GOLD.....	18
NSA RUBY.....	19
MAGIC CLEANER.....	20
EPOXY TILE GROUT.....	20
WATERPROOF TILE GROUT.....	21
POLY CEMENT.....	22
WALL PUTTY.....	22
CEMCOAT.....	23
STABISOL.....	24
CEMSEAL LEAKPROOF.....	25
CEMSEAL FLEXI.....	26
WATERSEAL.....	27
METASOL.....	28
CEMSEAL FLOOR HARDNER.....	29
CEMGROUT - NS(GP-2).....	30
CEMSEAL KRACKFILL.....	31
WOODSOL.....	32
CONSPPEED SPECIAL.....	33
MRA.....	34
CEMCURE S & W.....	35
CEMPOXY - ULTRA.....	36
CEMQUICK.....	37
SAFETY PRECAUTIONS.....	38

about Us

Cemseal Industries Limited is a company established with an object of manufacturing and dealing in Construction Chemicals. The Company has begun with a clear focus on its goal, mission and core values with an aim to be a serious long term player in the field of Construction Chemicals. The Company's plants are located at Plot No. C1/B 96-97, GIDC Industrial Estate, Kalol, Panchmahals : 389 330 & Plot 30, Marbel Market, Sejbahar, Raipur : 492015. It is engaged in manufacturing various types of Construction Chemicals in liquid as well as powder forms. The Company's product portfolio of over 50 products comprises various Admixtures, Tile Adhesives & Grouts, Waterproofing Chemicals, Wall Putty, Protective Coatings, Block Jointing mortar and Foundation Chemicals.

The Company has acquired 'CEMSEAL' brand and other trade names from Cementone (India) Ltd. together with the technology for manufacturing Construction Chemicals. Cementone (India) Ltd. had earlier acquired such technology from Cementone Ltd. (U.K.) and Bever Ltd. (U.K.). The process and technology developed by U.K. companies have been proven for over 200 years which gives an edge in developing market for its products. The Company has therefore adopted a punch line – “Building on over 200 years' experience”



Cemseal's Esteemed Customers & Projects



& MANY MORE...

OUR PREMIUM PRODUCTS



Testimonials



Hats off to Cemseal for the product NSA Gold. I could fix a stand-alone 8 ft x 4 ft porous designer marble on the outer wall without any support for a well-known builder's home. A big brand in the same field failed to do so earlier. Received a big contract because of this feat. Thank You, Cemseal!

- **Narendra Prajapati, Engineer, Kalol, Gandhinagar, Gujarat.**



We used 500 drums Barsol of Cemseal for anti-corrosive treatment of iron bars for a reputed government project. We are extremely satisfied with the result in terms of coverage, quality and service. Indeed, value for money. We have decided to use the same product and other products of Cemseal in all our future projects

- **Shoaib S Vaja, Site Supervisor, Somnath Sanskrit University, Veraval, Gujarat** -



Cemseal is the only company that I have come across that provides fibre reinforced NSA for flooring(NSA Bronze) at a reasonable rate managing superior quality, logistics, timely service and pricing. Value for money for traders like me. Hats off

- **Manish Jethwani, Raipur**



All the products from Cemseal are of extremely good quality at a reasonable rate. After checking almost 6 to 7 brands including a couple of big brands, we decided to use Cemseal Block Jointing Mortar as the first product from Cemseal in various projects. Results achieved from the same inspired the contractors and builders to demand more of Cemseal products. So here we are - a fullfledged distributor and a partner in the value chain of Cemseal!! Looking towards great years ahead with Cemseal.

- **Shah & Sons, Vadodara** -



Full range of products from Cemseal helps us to maintain a single brand for all our needs including putty, primer, paint, tile adhesives, epoxy at all our store locations. It improves the consistency and brand visuals pan India

- **Darshan Dasani, Founder, Tea Post**



As a part of VC Project, we always look for products that are superior in quality and are available at reasonable rate. We prefer a genuine company with umbrella of products so that we can offer world class quality as per RERA and other acts to our customers. Cemseal is one such company where our needs are met. We used its water-resistant Wall Putty, SBR Super Latex, Leakproof & Cemcoat. We are extremely satisfied with the performance of all the products used so far and will try other products of Cemseal as well in upcoming projects.

- **Rohit Movaliya , Site Engineer, VC Project & Infra Pvt Ltd** -



We used SBR Super Latex as a bonding agent and Cemgrout NS - GP2 as a high strength grout in 22.5 L litres underground water tank and 2.5 lac litres overhead water tank. We are extremely delighted with Cemseal products and services.

- **Rishi Patel, Project Manager, Radha Soami Satsang Beas (RSSB), Ahmedabad**

CEMPROOF WP+

Liquid integral waterproofing compound

DESCRIPTION

CEMPROOF WP+ integral waterproof contains a blend of specialised chemicals which when incorporated in concrete reduces permeability and facilitates the construction of water tight structures. It makes the concrete waterproof to resist both hydrostatic pressure and capillary absorption. It Conforms to IS:2645:2003 and IS:9103:2000 Standards.



ADVANTAGES

- Provides high strength and plasticity.
- Reduces honey combing and concrete leakages.
- Integral waterproofing solution for any type of cement work.

APPLICATIONS

Integral waterproofing compound for concrete, plaster, column, slab, staircase, water tank, basement, floor, sunk slab, terrace and any other concrete work.

SPECIAL PROPERTIES

- Resistant to penetration of water both under: a. Hydrostatic pressure b. Capillary action.
- Initially alkaline; has no corrosive effect on reinforcement in mass concrete.
- Is water retentive and thus aids curing, ensuring maximum strength.
- Reduces attack by water-borne aggressive conditions.
- Improves cohesive properties of concrete reducing segregation and bleeding.
- Helps reducing crazing in rich mixes by controlling rate of water evaporation.
- Aids in achieving better surface finish.

PRODUCT DATA

Appearance : Free flowing thin liquid

Colour : Wine red colour

Sp. Gravity @25°C : 1.05 ± 0.02 gms/ cc

Solid Content : 13 ± 0.5 %

pH value : 11 to 13

DOSAGE

200 ml per 50 KG cement

PACKING

ML: 500

LTR: 1,5,10,20,50,210

CONFLO

**Modified Ligno Sulphonate Based Water Reducer
& Integral Waterproofing Admixture**

DESCRIPTION

CONFLO is a high molecular weight polymer, chloride free, high range water reducing admixture designed as an aid to high quality concrete production, it conforms to BS 5057 part1 (1982) and ASTM C494 - 98 Type A & F.



ADVANTAGES

- Reduces water cement ratio.
- Improves strength and work ability.
- Enables early removal of shutter.
- Reduces honey combing in concrete.
- Increases the flow and compaction in reinforcement.
- Provides high early strength of concrete.
- Improves integral waterproofing quality.

APPLICATIONS

- Enables a reduced Water : Cement ratio to facilitate the production of high strength concrete.
- Improves work ability at given water : cement ratio, aiding flow and compaction around re-inforcement and the production of clean faced concrete.
- Reduces viscosity thus improving pumpability, allows slump. Concrete can be turned into flowing concrete that requires little or no vibration for compaction.
- Enables optimum cement content for given strength requirements.
- Reduces segregation and laitance particularly in harsh gap-graded mixture.
- High range, low dosage plasticizer working at a dosage range between 0.4% to 1% by weight of cement depending on the site mix design requirements.

PRODUCT DATA

Colour	: Brown Liquid
Consistency	: Low Viscosity
Specific Gravity	: 1.19 to 1.20
Air Entrant	: 0 to 1%
Chloride Content	: NIL
Nitrate Content	: NIL
Dosage	: 0.200 - 0.500 liter per 50 Kg. cement (0.4 to 1% volume to weight cement)
Packing	: KG :- 1,5,10,20,50,250

BAR SOL

Water Based Anti Corrosive Bar Coating

DESCRIPTION

BAR SOL is most economical anti corrosive & high grip coating for steel bar protection. It has good adhesion & gives fairly good corrosion resistance to metal. It can be brushed or sprayed. It gives hard & tough coating on metal surface steel-bar, Tor-steel bar etc. It conforms to BS 4652, 1995 type-2.



ADVANTAGES

- Corrosion resistance.
- Economical.
- Can be used on ferrous substrates.
- Provides positive protection of steel components against corrosion
- Excellent adhesion to steel
- Easy to use
- Short overcoating time

APPLICATIONS

Water based anti corrosive coating for structural steel, iron bars, TMT bars, cast iron and short.

APPLICATION VISCOSITY

Brushing - 50 to 60 sec at 30°C by F. C. No.4
Spraying - 30 to 35 sec at 30°C by F. C. No.4

PRODUCT DATA

Finish : Semi matt

Colour : Parrot Green

Covering capacity : On smooth mild steel surface : 100-110 kg steel / ltr depending upon surface.

Drying time : Surface dry-Less than 45 minutes.

Hard dry-Less than 12 hours.

Over Layer time - Minimum 10 hours

(Above properties depend upon temperature & humidity)

Packing : 1 ltr, 4 ltr, 10 ltr, 20 ltr

Thinner Recommended : DM Water

DIRECTION FOR USE

Remove dust, oil, grease, rust & other loose flakes etc. Apply water based BAR SOL by adjusting the viscosity with water as recommended thinner for brushing or spraying. Allow BAR SOL layer to hard dry. Stir well prior to use.

PRIMARY USES

- As a preventive coating to steel reinforcing bars in concrete
- As a touch-up primer for damaged galvanized metal
- As a primer for steel substrates prior to suitable top coating

METHOD OF APPLICATION

- Two coats by brush or spray at pressure of 40 to 50 P.S.I. to achieve 18 to 20 micron DFT
- Submerge the bar in CEMSEAL BAR SOL for 15 seconds before taking it out and drying on the stand to achieve 18 to 20 micron DFT.

TECHNICAL PROPERTIES

Appearance	: Parrot Green Solution
Gravity	: 1.20 ± 0.01 KG/M ³
ph	: 8 ± 1
Solid cont.	: $50 \pm 1\%$ (10 Grams, 120° C, 1 Hour)
Flow test	: 45 ± 5 Seconds (@20% Dilution, B4 Cup)

BLOCK JOINTING MORTAR

Thin Bed AAC blocks jointing adhesive

DESCRIPTION

CEMSEAL BLOCK JOINTING MORTAR is a superior water resistance cement based mortar, specially formulated for joining blocks. This mortar is specially designed and manufactured under stringent quality controls to give superior adhesive strength, higher durability and a strong bond between the blocks. This unique combination enables this mortar to be thinner, compact and versatile. It also ensures higher bond strength and durability at only 3 mm thickness compare to the conventional mortar at 12 - 15 mm replacing the conventional cement and sand mix mortar completely.



ADVANTAGES

- Thin joints - Only 2-3 mm joint is sufficient for jointing of two blocks.
- Less quantity - Quantity required is 75% less than the conventional mortar.
- Time saving - No site mixing required for various raw materials and overall less material required in application process.
- Easy application - Easy to mix, blend and apply due to the smooth texture of the mortar.
- Water saver
- Eco friendly.

APPLICATIONS

Cemseal block jointing mortar is a superior water resistance cement based mortar, specially formulated for joining blocks.

TECHNICAL PROPERTIES

Tensile strength @ 28 days	: > 0.5 N/mm ²
Compressive strength @28 days	: > 6 N/mm ²
Work ability	: 170-180 mm sq.ft./40 kg with 25% of water
Silt content in sand	: < 1.0%
Bulk density	: 1650-1700 kg/m ³

SPECIAL PROPERTIES

- Thin joints** : Only 2-3 mm joint is sufficient for jointing of two blocks.
- Less quantity** : Quantity required is significantly less than the conventional mortar.
- Time saving** : No site mixing required for various raw materials and overall less material required in application process.
- Easy application** : Easy to mix, blend and apply due to the smooth texture of the mortar.
- Water saver** : Water curing is not required after the application of CEMSEAL BLOCK JOINTING MORTAR as it contains self curing properties.
- Eco friendly.**

PRODUCT CHARACTERISTICS

- Physical nature** : Free flowing grey powder
- Water requirement** : 20 to 25% by weight
- Hard dry** : 24 hours (depending on temperature & humidity)
- Pot life** : 45 to 60 minutes
- Coverage (per 40 kg bag)** : 170 sq.ft. (considering joint thickness of 2-3 mm)

SBR SUPER LATEX

For Waterproofing & Repairs

DESCRIPTION

SBR Super Latex for waterproofing & repairs is a high degree styrene butadiene copolymer latex which is specially modified to be compatible with cement based mixes. It enhances mechanical properties such as adhesion, flexibility, compression and impact strength of concrete and improves the thin section fragility of cement when used as coating. It Conforms to BS 6319 part 2:1983, ASTM C-190-85 and ASTM 881.



ADVANTAGES

- Brushable and easy to apply for waterproofing.
- Can be used as a waterproof coat.
- Is suitable for use in damp situation.
- Improves high water resistance to the mix.
- Improves adhesion and flexibility.
- Improves workability.
- Allows thinner section and reduction in water content.
- Reduces cracking.
- Improves chemical and abrasion resistance.
- Stops water leakages quickly from terrace, water tank, sunk slab etc.

TYPICAL APPLICATION

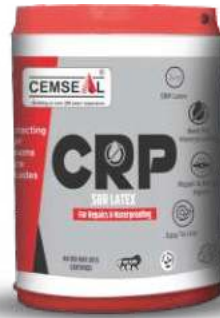
- Helps floors to get high abrasion resistance.
- Waterproofing of building terraces, toilets, basements.
- Recommended for use in effluent tanks, dairies, food factories, fertilizer stores etc.
- Waterproofing of water tanks and swimming pools.
- Renovation and protection of concrete against corrosion and salt.
- Patching and bonding on to background of low suction and repairing of concrete and masonry wall - internal, external and terraces by cement mortar.

TYPICAL CHARACTERISTICS

Solids	: 42 ± 2 %
Colour	: Fluorescent milky emulsion.
Consistency	: Free flowing
Shelf Life	: 24 Months from date of manufacturing
Initial Setting Time	: 24 Hours
Initial Curing Time	: 72 Hours with moist cloth or water spray
Complete Curing time	: 28 Days under water immersion
Finish of the surface	: Smooth
Coverage as bonding coat/passivator Coat	: First Coat 6-7 sq-mt/1 Lit. SBR Second coat 7-8 sq-mt/1 Lit. SBR
Bond strength	: 5 N/sq mm
Chemical resistance	: resist mild acids & alkalies
pH	: 8 ± 1
Specific gravity(Kg/ltr)	: 1.02 ± 0.02 (@30°C)
DOSAGE	: For waterproofing : 5 KG cement: 2.5 litres water: 1 litre SBR For repairing : 10% cement weight
PACKING	: ML:- 200, 500 LTR:- 1,5,10,20,50,210

DESCRIPTION

CRP SBR LATEX is based on modified styrene butadiene latex supplied as a ready to use bonding agent in liquid consistency. It is used for repair of spalled concrete floors, columns, beams, chhajas & slabs. Waterproofing of toilets & bathrooms, terraces etc. It bonds strongly to old & new concrete and to plasters. It reduces shrinkage, prevents cracking, dust pick up & improves abrasion resistance. It conforms to BS 6319 Part 221983, ASTM C-190-85 and ASTM 881.



ADVANTAGES

- SBR Latex for waterproofing.
- Brushable and easy to apply for waterproofing.
- Can be used as a waterproof coat.
- Stops water leakages from terrace, water tank, sunk slab etc.

APPLICATIONS

All concrete slabs, water tank, cement sheets, terrace, repairing of old RCC structures, old and new concrete joints, toilet, bathroom, sunk slab, filling of hairline cracks, plastering RCC structure without making grooves.

PROPERTIES	SPECIFICATION	RESULTS
Base		SBR Latex (styrene, butadine rubber)
Coverage		20 - 22 sq ft/Ltr. for two coats
Mixing ratio		1.5:2:5
Total active solid content		32 ± 2%
Pot life @ 30°C		30 - 45 minutes
Specific gravity at 30°C		1.01 ± 0.02
pH		7 to 9
Compressive strength N/mm2 - 7 days	(BS6319 part221983)	Passes the specification
Tensile strength, N/mm2	(ASTM C -190-85)	Passes the specification
Flexural strength, N/mm2		>9
Slant shear bond, N/mm2	ASTM 881	30
Chemical resistance to mild acids, alkalies, sulphates.		Resists
Freeze thaw resistance		Excellent

DOSAGE

For waterproofing :

5 KG cement: 2 litres water: 1.5 litre CRP

For repairing :

10% of cement weight

PACKING

ML: 200, 500

LTR: 1,5,10,20,50,100,210

CEMCRETE

Acrylic Co-polymer

DESCRIPTION

CEMSEAL CEMCRETE is composed of acrylic co-polymer & additive, It is used as a bonding agent for new to old substrates as it provides strong bonds to old new concrete. Improves tensile flexural strength of concrete and increases the durability of the structure. When mixed with cement, It forms matrix and provides excellent waterproof coating. CEMSEAL CEMCRETE provides better flexibility compared to other latex based solutions. It conforms to BS 6319 part 2:1983, BS 6319 part 4:1984 & BS 7542:1992.



ADVANTAGES

- For Acrylic Polymer based waterproofing.
- Brushable and easy to apply for waterproofing.
- Can be used as a waterproof coat.
- Restrains UV rays & direct sunlight.
- Stops water leakages from terrace, water tank, sunk slab etc.

APPLICATIONS

Reinforcing Steel Priming

- Apply one coat of CEMCRETE cement slurry (1:1 by volume) to all exposed steel reinforcement and allow it to dry. A second coat application is also recommended. Allow it to dry. The surface should be thoroughly soaked With clean water prior to application of CEMCRETE
- Apply CEMCRETE with brush or rollers on the substrate and avoid ponding and remove any excess material. The repair or topping application should be carried out whilst the primer is still tacky.

AREA OF APPLICATION

Concrete repair - spalled concrete floor, columns, beams, chajja, slab & parapet etc.

Bond coat - Old to new concrete, masonry, stonework plaster, fixing or re-fixing slip bricks, tiles, marbles & bedding

Priming - Reinforcement steel

Additive - Additives for renders & mortars

Coating - As an flexibiliser to cement

FEATURES & BENEFITS

Chloride content : Contains no chloride all

User Friendly : Single component ready to use, simply brushed onto concrete as a primer Bonding: Provides excellent bond to concrete, masonry. plywood. gypsum & plaster

Strength : Improves tensile, flexural and compressive strength as compared to control concrete hence increases the durability of structures

Compatibility : Compatible with all common cements hence it is versatile

Dust generation : Excellent as a dust proof sealer

Waterproofing : Improves waterproofing properties of cement & cementitious compositions.

Flexibility : Improves flexural strength of cement & cementitious composition

Dosage : For waterproofing: Add 1 litre Cemcrete in 1 KG of Cement For Best Results

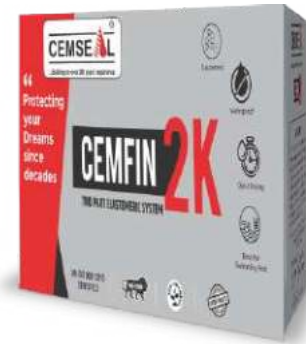
Packing : ML:- 200, 500
LTR:- 1,5,10,20,50,210

CEMFIN 2K

Two Part Elastomeric System

DESCRIPTION

CEMFIN 2K is 2 parts polymer modified flexible cementitious water proofing membrane coating specially formulated for concrete and masonry surface, which is supplied in ready-mix kits (2 parts). When the dry part is mixed with acrylic-modified emulsion and applied according to direction. The cured CEMFIN 2K will become a tough, flexible and seamless waterproof membrane and will acts as an excellent water barrier to concrete and masonry surface.



APPLICATIONS

- CEMFIN 2K slurry can be applied by brush or trowel. DO NOT dilute with water. Recommended coverage rate is approximately 1.1 kg./m²/coat for 0.8 mm. (minimum 2 coat.)
- Allow the slurry to cure for at least 1 hour before applying the second coat.

AREA OF APPLICATION

- Concrete foundations, basements wall and lift pits.
- Swimming pools, water tanks and reservoirs.
- Concealed roofs, parking decks, bathroom, toilet, kitchen, balconies and planters.
- Any other concrete, cement or masonry surface subject to damage from moisture.

FEATURES & BENEFITS

- Quick drying.
- Easily applied by brush or trowel.
- Flexible.
- Excellent adhesion to concrete and masonry substrates.
- Non toxic substances.
- Environment friendly - free Volatile Organic Compound (VOC).
- Can be applied on damp surface.
- Excellent waterproofing property - No leakage up to 10 m. hydrostatic pressure.

TECHNICAL INFORMATION

Properties	Results
Mix Component	Mix Ratio 1:2 (A: B)
Polymer Content	> 18 %
Water Absorption	< 6%
Proprietary Polymer	High quality modified acrylic polymer
Set-to-touch time	45 min
Tensile Strength - as cast	2.5 N/mm ²
Elongation at Break - as cast	60 %
Adhesion to Substrate	0.80 N/mm ²
Adhesion to Concrete at 7 day	1.75 N/mm ²
Immersion in water Adhesion to Concrete at 7 day	1.00 N/mm ²
Crack Bridging	1 mm

COVERAGE

1 square meter per kg per coat (Minimum 2 coats - actual coats may depend on the surface needs).

PACKING

KG: 3, 15

CEMPLAST

Mortar Plasticizer Admixtures For Cement Plasters

DESCRIPTION

CEMPLAST is a Vinsol resin based air entering agent, free from calcium chloride and designed to give plasticity with a degree of water resistance in the set mortar. Workability and ease of use is ensured by the air entering qualities of the plasticizer in brick mortars, renderings, backing coat and pointing. It Conforms to IS:9103:2000 and IS:2645:2003.



ADVANTAGES

- Gives ease of working by improved plasticity with consequent increased productivity
- With Cemplast the Mortar will not bleed or segregate thereby achieving cohesiveness
- Shrinkage, Cracking and crazing is minimized
- Inbuilt bonding aids reduce rebound losses
- Cemplast cuts labor costs reduces cement consumption and wastage, hereby providing economical benefits
- Improves mortar Durability

APPLICATIONS

Plasticizer for Cement Plaster that helps in better Coverage, Work ability, and ease of use while plastering brick, mortar & AAC block

HOW TO APPLY?

1 liter of Cemplast added to a 200 liter drum of gauging water will be sufficient for gauging approximately 4x50 kg bags of cement to produce renders or bricklaying mortar.

PACKING

LTR :1, 5, 10, 20, 50, 210

CEMTILE PRIMER

Back Tile Primer

DESCRIPTION

CEMTILE PRIMER is used to manufacture building adhesives and primers with improved water resistance and good adhesion to mineral and glazed surface, such as back tile adhesives.

Back tile adhesives with CEMENTILE PRIMER retains excellent adhesion to porcelain tiles even after long term water treatment. The high resistance against water and alkaline enable a more durable solution for the customer. Additionally, the rollable application of back tile adhesives enables a quick and reliable application on the job site.



ADVANTAGES

- Improves the bonding of tile having extremely smooth back surface with Cemseal NSA.
- For other tiles, enhances the strength and bonding of NSA with tile.

APPLICATIONS

- For fixing the tiles and stones (including tile on tile) having extremely smooth back surface.
- To enhance the strength and bonding of tile with Cemseal NSA

HOW TO APPLY?

Use roller/brush to apply

COVERAGE

50-70 sq ft in 1 litre depending on workmanship

PACKING

LTR: 20

CEMSEAL SLURRY BOND

On-site Mix Additive To Be Mixed With Cement, For Fixing Of Floor Tiles

DESCRIPTION

CEMSEAL SLURRY BOND is an economical on-site mix additive to be mixed with cement, for fixing of floor tiles. CEMSEAL SLURRY BOND exhibits very high water retention and thus reduces the absorption of water in to porous substrates. It 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.



ADVANTAGES

- Exceptional bonding properties, compared to the traditional conventional machan
- Easy to use, no special tools required
- Economical solution for tile fixing
- Low VOC (Volatile Organic Compounds)
- Environmentally safe.
- Improves adhesion
- High open time & antisag properties
- Good adjustability time with high water retention even at elevated temperature
- It can be used with both grey and white cement
- Suitable for Ceramic & Vitrified tiles

APPLICATIONS

CEMSEAL SLURRY BOND & cement slurry are used for fixing tiles on conventional machan / Levelling bed application. Can be applied by notch trowel.

METHOD OF APPLICATION

SURFACE

- The surface should be sound, clean, and free from dirt, oil or grease before application of conventional cement machan or levelling bed.
- Ideally levelling bed / Machan should be prepared using Cement: Sand: Water in the ratio OH :6: 1.

MIXING

- CEMSEAL SLURRY BOND to be mixed with cement & sand for your floor tile Fixing.

TECHNICAL INFORMATION

Colour	: White
Appearance	: Free flowing powder
Bulk density	: 0.75 g/ ml
Packaging	: 300 grams

SHELF LIFE

Factory sealed pack of this product are guaranteed to be best quality for one year* from the date of manufacturing, if stored off the ground in a dry area.

*High humidity will reduce the shelf life of the bagged product

NSA BRONZE

Polymer Based Non-Skid Tile Adhesive

DESCRIPTION

NSA BRONZE is a high quality tile adhesive for the fixing of ceramic & small size of vitrified tiles for vertical and horizontal applications. NSA BRONZE tile adhesive is more suitable for internal applications.



ADVANTAGES

- Grouting is possible on same day.
- Excellent waterproofing characteristics.
- Simple preparation (need to add just water).
- Self-curing, excellent tensile adhesion strength.
- Enhanced durability.
- Ready to use product

APPLICATIONS

- Ceramic internal application, Small sizes vitrified internal application (for floor & wall application).
- Porcelain & porous stones (for floor application).
- Fixing tiles over smooth surfaces.
- Applicable tile sizes for floor application 250mm X 400mm, 300mm X 600mm, 300mm X 300mm, 600mm X 600mm.
- Applicable for tile sizes for wall application 250mm X 400mm, 300mm X 300mm.

PROPERTIES	STANDARD TEST METHOD	RESULTS
Appearance	-	Grey Powder
Grade	-	Type 1 & C1T
Bulk density	IS 15477 2019, EN 12004	1.82 gm/cc
Tensile adhesion strength @ 28 days	IS 15477 2019, EN 12004	>0.5N/mm ² (dry)
Shear adhesion strength @ 28 days	IS 15477 2019, EN 12004	>01N/mm ² (dry)
Adjustability in minutes		>20

*C1=Type adhesive | T= Thixotrophy

COMPLIANCE STANDARD

IS 15477:2019, EN 12004

COVERAGE

25 to 35 sq.ft. Per 20 KG with notch trowel for a bed thickness of 3 to 4 mm.

PACKINGS

NSA BRONZE is supplied in 20 & 40 Kg bags.

EXPERT TIP

Use Cemseal NSA+ To Boost Strength, Bonding And Adhesion Capability Of Cemseal NSA. Add 200ml of NSA+ Per 20 KG of NSA.

NSA SILVER

Polymer Based Non-Skid Tile Adhesive

DESCRIPTION

NSA SILVER is a polymer modified cement based thin bed Tile adhesive for fixing ceramic tiles, vitrified tiles & natural stones of regular sizes. It is suitable for both vertical and horizontal surfaces for indoor applications, in dry & wet both areas. It is also recommended for Tile on Tile application.



ADVANTAGES

- For floor & wall.
- For dry & wet application areas.
- For interior use.
- Excellent bonding strength & waterproofing properties.
- Excellent tensile adhesion strength.
- Prevents discolouration. (in NSA SILVER White)
- Same day grouting possible - Self curing.
- Just add water - Easy to use.

APPLICATIONS

- All types of ceramic tile, paver, bricks, vitrified tile, porcelain tile.
- Use in dry & wet areas.
- Applicable of tiles size 250mm X 400mm, 300mm X 600mm, 300mm X 300mm, 600mm X 600mm. , 1200mm X 600 mm, 1500mm X 750mm.
- Sand stones, mint stones in internal application.

PROPERTIES	STANDARD TEST METHOD	RESULTS
Appearance	-	Grey/White colored powder
Grade	-	Type 2 & C1TE
Tensile adhesion strength @ 28 days	IS 15477:2019, EN 12004	> 1 N/mm ² (dry)
Shear adhesion strength @ 28 days	IS 15477:2019, EN 12004	> 1.25 N/mm ² (dry)
Adjustability in minutes	IS 15477:2019, EN 12004	> 20
Slip resistance in mm	IS 15477:2019, EN 12004	< 0.5
Open time in minutes	IS 15477:2019, EN 12004	> 20

*C1=Type adhesive | T= Thixotrophy | E= Open time

COMPLIANCE STANDARD

IS 15477:2019, EN 12004.

COVERAGE

25 to 35 sq.ft. Per 20 KG with notch trowel for a bed thickness of 3 to 4 mm.

PACKINGS

NSA SILVER is supplied in GREY/WHITE - 20 & 40 Kg bags.

EXPERT TIP

Use Cemseal NSA+ To Boost Strength, Bonding And Adhesion Capability Of Cemseal NSA. Add 200ml of NSA+ Per 20 KG of NSA.

NSA GOLD

Non-Skid Tile & Stone Adhesive



DESCRIPTION

NSA GOLD is available for fixing of ceramic tiles, vitrified tiles & natural stones for floor & wall. The set adhesive is water-resistant and is suitable for use in showers and totally immersed situations such as swimming pools.

ADVANTAGES (GREY)

- For floor & wall - interior & exterior.
- Suitable for porous stones.
- For dry & wet application areas.
- Excellent bonding strength & waterproofing properties.
- Excellent tensile adhesion & shear adhesion strength- superior quality.

ADVANTAGES (WHITE)

- For floor & wall - interior & exterior.
- Suitable for porous stones.
- For dry & wet application areas.
- Specially formulated for swimming pool application.
- Prevents discolouration.
- Excellent bonding strength & waterproofing properties.
- Excellent tensile adhesion & shear adhesion strength-superior quality.

APPLICATIONS

- Tile claddings
- Porcelain tile
- Vitrified tile
- Low porous stones
- Applicable of tile/stone sizes 250mmX400mm, 300mX300mm, 300mmX400mm, 300mmX600mm, 300mmX900mm, 600mm X 1200mm, 2400mm X 1200mm
- Sand stone, khatu, Lapato, Quartz, Lime stones, Granite, Elevation stone, Rajasthan black stone & Marbles in internal & external applications

PROPERTIES	STANDARD TEST METHOD	RESULTS
Appearance	-	Grey/White colored powder
Grade	-	Type 3 & C2TE
Bulk density	-	1.75 gm/cc
Tensile adhesion @ 28 days	IS 15477:2019, EN 12004	>1.5 N/mm ² (dry)
Shear adhesion strength @ 28 days	IS 15477:2019, EN 12004	>1.5 N/mm ² (dry)
Pot life	-	Approx. 2 hours
Adjustability in minutes	IS 15477:2019, EN 12004	> 20
Slip resistance in mm	IS 15477:2019, EN 12004	< 0.5
Open time in minutes	IS 15477:2019, EN 12004	>20

*C2=Type adhesive | T=Thixotrophy | E= Open time

COMPLIANCE STANDARD

IS 15477:2019, EN 12004.

COVERAGE

25 to 35 sq.ft. Per 20 KG with notch trowel for a bed thickness of 3 to 4 mm.

PACKINGS

NSA GOLD is supplied in GREY/WHITE - 20 & 40 Kg bags.

EXPERT TIP

Use Cemseal NSA+ To Boost Strength, Bonding And Adhesion Capability Of Cemseal NSA. Add 200ml of NSA+ Per 20 KG of NSA.



NSA RUBY

Polymer Based Non-Skid Tile Adhesive

DESCRIPTION

Flexible tile adhesive for tiles & stones at any height.

ADVANTAGES (GREY)

- For floor, wall & ceiling - interior & exterior.
- For dry & wet application areas.
- Suitable for porous stones.
- Provides shock & load resistance.
- Excellent bonding strength & waterproofing properties.
- Excellent tensile adhesion & shear adhesion strength- superior quality.



ADVANTAGES (WHITE)

- For floor, wall & ceiling - interior & exterior.
- For dry & wet application areas.
- Provides shock & load resistance.
- Provides vibration resistance.
- Specially formulated for swimming pool application.
- Prevents discolouration.
- Excellent bonding strength & waterproofing properties.
- Excellent tensile adhesion & shear adhesion strength-superior quality.

APPLICATIONS

- Tile claddings.
- Vitrified tile.
- Porcelain tile.
- Low porous stones.
- Applicable of tiles/stone size 250mm X 400mm, 300mm X 300mm, 300mm X 400mm, 300mm X 600mm, 300mm X 900mm, 600mm X 600mm, 600mm X 1200mm, 1500mm X 750mm, 2400mm X 1200mm.
- Sand stone, khatu, Lapato, Quartz, Lime stones, Granite, Elevation stone, Rajasthan black stone & Marbles in internal & external applications.

PROPERTIES	STANDARD TEST METHOD	RESULTS
Appearance	-	Grey/White colored powder
Grade	-	Type 3 & C2TES1
Bulk density	-	1.75 gm/cc
Tensile adhesion @ 28 days	IS 15477:2019, EN 12004	> 1.5 N/mm ² (dry)
Shear adhesion strength @ 28 days	IS 15477:2019, EN 12004	> 1.5 N/mm ² (dry)
Deformability @ 28 days	IS 15477:2019, EN 12004	S1
Pot life	-	Approx. 2 hours
Adjustability in minutes	IS 15477:2019, EN 12004	> 20
Slip resistance in mm	IS 15477:2019, EN 12004	< 0.5
Open time in minutes	IS 15477:2019, EN 12004	>20

*C2=Type adhesive | T=Thixotrophy | E= Open time | S1= Deformability

COMPLIANCE STANDARD

IS 15477:2019, EN 12004.

COVERAGE

25 to 35 sq.ft. Per 20 KG with notch trowel for a bed thickness of 3 to 4 mm.

PACKINGS

NSA RUBY is supplied in GREY/WHITE - 20 & 40 Kg bags.

EXPERT TIP

Use Cemseal NSA+ To Boost Strength, Bonding And Adhesion Capability Of Cemseal NSA. Add 200ml of NSA+ Per 20 KG of NSA.



MAGIC CLEANER

All-purpose Cleaner

DESCRIPTION

CEMSEAL MAGIC CLEANER is an all-purpose cleaner that can be used for different cleaning tasks in and around the house, such as cleaning floors, windows and mirrors. Suitable for light cleaning activities.



ADVANTAGES

- Cleans steel taps, faucets, sinks, fixtures, glass, ceramic and tiles by removing stains, rust, calcium, limescale and dirt. Stubborn stains, rust, calcium & limescale may get completely removed by using CEMSEAL MAGIC CLEANER regularly over period of time.
- Makes the item shine.
- CEMSEAL MAGIC CLEANER is an Eco-friendly & does not harm skin anyway.
- CEMSEAL MAGIC CLEANER is non-acidic.

APPLICATIONS

All in 1 product for cleaning metal, steel, ceramic items, sinks, fixtures, glass and tiles.

PACKINGS

ML: 200, 500

LTR: 5, 20

EPOXY TILE GROUT

Epoxy Based Waterproof Tile Grout

DESCRIPTION

- CEMSEAL EPOXY TILE GROUT is a three part system, comprising of PART A, PART B and PART C. For ease of application and the ability to fill tile/stone joints, the grout is best mixed to a smooth creamy consistency.
- CEMSEAL EPOXY TILE GROUT is hygienic, hard-wearing, impervious, epoxied resin-based grout with a high degree of resistance to chemical attack, abrasion and impact. The cured grout does not transfer taints to foodstuffs, does not permit the entry of bacteria or dirt and is easily maintained in a sterile condition.
- It conforms to ASTM C 658 - 98 (2012).



ADVANTAGES

- Sterile
- Waterproof
- Smooth surface
- Hygienic and chemical resistant
- Stain and bacterial resistant
- High durable joints
- Frostproof
- High strength
- Non contracting

APPLICATIONS

- Wall floors • Dry areas
- Work tops
- Heavily trafficked floors
- Chemical resistance
- Interior / Exterior
- Hydrotherapy pools
- Wet areas
- Swimming pools
- Hygienic sterile areas

PACKINGS

- 1 KG, 5 KG, 20 KG
- Available in more than 44 variants and colours

WATERPROOF TILE GROUT

Polymer Modified Cementitious Waterproof Tile Grout

DESCRIPTION

CEMSEAL WATERPROOF TILE GROUT is cement based, single component polymer modified tile grout for filling tile joints up to 5 mm width. It is a specially formulated premium, fast setting, low shrinkage grout that prevents ingress of water through the joint. It conforms to BS EN13888 : 2002



ADVANTAGES

Specification : Meets the requirements of ANSI 118.6 (Specification for tile grouts)

Easy to mix : Cement based easy to mix joint filler available in 28 brilliant shades

Impermeability : Water repelling impermeable joint filler suited for domestic and commercial floors, walls etc.

Excellent adhesion : Sustainable and durable for a long time

Easy to clean : Non-dusting and easy to clean

PRODUCT FEATURES

Available Packs : 500 grams, 1KG & 20 KG

Shelf life : 12 months from the date of manufacturing, when stored in original packaging under normal dry conditions.

Colours : Available in 28 brilliant shades

Coverage : Coverage depends on workmanship and joint width & depth of the tile joint

TECHNICAL DETAILS

Form : Free flowing powder

Color : As per shade card

Mix density : 1.75 - 2.05 (depending on shade)

Pot Life : 1 Hour

Curing time : 24 Hours

Cleaning tools : with water immediately after use

PACKINGS

- 500 grams, 1KG & 20 KG
- Available in more than 28 variants and colors

EXPERT TIP

Use Cemseal WTG+ To Boost Strength, Bonding And Adhesion Capability Of Cemseal WTG to Enhance Waterproofing Quality. Add 100ml of WTG+ Per 1 KG of WTG.

POLY CEMENT

Polymer Modified Portland Cement

DESCRIPTION

CEMSEAL POLY CEMENT is a polymer based portland cement, manufactured with the highest quality raw materials and added polymers. It has dual virtues of superior compressive strength and aesthetics. Polymer based cement gives higher compressive strength, flexibility, durability and best in class waterproofing adhesion in structure and joints.



ADVANTAGES

- Higher compressive strength
- Flexibility
- Durability
- Waterproofing adhesion in structure & joints.

APPLICATIONS

It can be used for decorative, structural and architectural applications such as mortar, plaster, concrete, flooring surface. It can be used in waterproofing because of enhanced polymers.

REPAIRING

- Decorative
- Structural
- Architectural
- Mortar
- Plaster
- Concrete
- Flooring surface

PACKINGS

KG: 1,5

COLOUR

Grey, White

WALL PUTTY

Water Resistant Polymer Putty

DESCRIPTION

WALLPUTTY is a wall filler specially developed as a finish compound to cover unevenness and pinholes in plastered surfaces and to make the wall/ceilings ready for painting. It contains finest quality minerals, white cement and proprietary chemicals.



ADVANTAGES

- Durability, finish, bonding, coverage.
- Water resistance.
- Ease in application.
- Prevents flaking. Eco friendly. Reduces consumption of paints.

PACKINGS

KG: 1,5,20,40

COVERAGE

1.8 to 2 sq metre per KG
(depends on condition of wall surface)

APPLICATIONS

Wall Putty for exterior and interior walls.

CEMCOAT

Interior/Exterior Acrylic Wall Emulsion

DESCRIPTION

CEMCOAT is a rapid drying solvent free low VOC water based acrylic wall solution for Interior & Exterior walls, CEMCOAT is compatible with cement based ceramic tile, CEMCOAT can be used as primer & paint.



ADVANTAGES

- Makes surface durable.
- Prepares wall for finish coats.
- Provides extended paint coverage.
- Provides smoother finish appearance.
- Can be tinted with any colour with white base.
- Any customized colour can be directly provided by factory, if require in bulk.

APPLICATIONS

- Interior and exterior walls
- Wood trims, doors, and flooring
- Windows
- Stairs
- Surfaces like wicker, masonry, concrete & plaster.
- Acrylic Wall Solution for Primer & Paint.

PRODUCT DATA

Mixing	: Thoroughly mix well CEMCOAT before use.
Clean up	: Clean all equipments with water immediately after use.
Coverage	: As Primer: 6 to 8 square metres per litre per coat As Paint: 4 to 6 square metres per litre per coat
Packaging	: 1 ltr, 4 ltr, 10 ltr, 20 ltr
Shelf life	: 12 months from date of manufacturing in unopened containers.
Storage	: CEMCOAT must be stored in a dry area off the ground, out of direct sun light, protect from Frost.
Initial Set Times	: 1-2 hours @ 25°C in dry weather.
Restrictions	: A) Do not apply CEMCOAT on substrates subject to rising damp. B) Do not apply CEMCOAT on tiles that have wax or excessively high gloss coating

STABISOL

**Water Based Universal Stabilizing Solution
(Can Be Used As Exterior / Interior Primer / Paint)**

DESCRIPTION

CEMSEAL STABISOL weatherproof emulsion is a smooth, water-based, modified acrylic protective coating with specially formulated SBR additives to assist in waterproofing. CEMSEAL STABISOL also can be used as a decorative coating for interior & exterior walls (new / old plasters).



ADVANTAGES

- Excellent opacity and whiteness.
- Improves appearance of top coat.
- Can be used as a top coat with matt Finish.
- Does not chalk and can be applied on adequately cured fresh plaster.
- Does not require curing with water
- Provides excellent adhesion to premium top coat emulsions
- Prevents peeling off of top coat emulsions
- Stabilizes, Protects, Dampproofs The Wall
- 5 in 1
 - Paint
 - Primer
 - Algae repellent
 - Waterproofing
 - Alkali/ Fungus / UV Resistant

APPLICATIONS

Water based decorative coating for interior & exterior wall. Can be used on new and old plasters. Can be used as waterproof coating of exterior wall.

PRODUCT DATA

Packing Available	: 1 Ltr, 4 Ltr, 10 Ltr, 20 Ltr
Available Colour	: White; Use stainers for any colour. Custom made - out of factory colours can be provided for sizeable order
Coverage	: On smooth masonry surface (1 Coat - 60-80 Sq.Ft/Ltr. as a primer) (1 Coat - 40-60 Sq.Ft/Ltr. as a Paint) : 4-5 Hours
Drying time to Recoat	: 48 Hours (@ standard weather conditions)
Final drying time	: 3 years From date of manufacture in original tightly closed container away
Shelf Life	from direct sunlight and excessive heat

TECHNICAL DETAILS

- Drying time : Surface dry time 120 min
- Flash point IS101/1987 Part 1, Sec 6 : NA
- Stability of thinned paint : To be used within 24 hours

EXPERT TIP

Use Cemseal STABISOL+ To Boost Strength, Bonding, Adhesion and Crack Bridging Capability Of Cemseal STABISOL to Enhance Waterproofing Quality and to Provide Shine. Add 1L of STABISOL+ Per 20L of STABISOL.

CEMSEAL LEAKPROOF

Fiber Reinforced Elastomeric Acrylic Waterproofing Membrane

DESCRIPTION

CEMSEAL LEAKPROOF is a fiber reinforced elastomeric acrylic waterproofing membrane. It is formulated with selected elastomeric and resilient acrylic polymers and reinforcing polyester fibers. Upon curing, it forms a thick, seamless, durable membrane thus offering ultimate waterproofing. It conforms to ASTM D 412-02, BS EN 12390, ASTM D 4587, ASTM D 4541 & ASTM C 1202-97.



ADVANTAGES

Waterproofing

Waterproofing protection of up to 7 bars hydrostatic pressure.

Crack bridging

Unmatched crack bridging ability due to elastomeric properties.

Mechanical strength

Reinforced with glass fibers for superior abrasion resistance.

Adhesion

Strong adhesion to masonry substrates.

High sheen

High sheen, brilliant white colour and thick coat results in high levels of heat

Anti carbonation

Reduces carbon dioxide and chloride ion diffusion thus protecting re-bars

Use & maintenance

Single pack, easy to apply and simple re-coating.

Warranty

8 years Waterproofing warranty on terraces and vertical surfaces (please refer to warranty booklet for details)

APPLICATIONS

Quality elastomeric acrylic material.

For terrace and internal/external walls.

SPECIFICATION

Available Packs : 1,4,10,20 Litres

Colour : White

Recommended System : On RCC, plaster or primer, using brush or roller

Coverage : 10 sq. ft/ltr for double coat on terraces 30-35 sq. ft/ltr for double coat on vertical walls

Drying time : 4 - 6 hours at standard conditions

Recommended Usage : Can be used on roofs, terraces, parapet, sunshades and vertical walls. It can also be applied on existing IPS, sound brick-bat coba or cementitious waterproofing.

Shelf Life : 2 years from date of manufacturing in original tightly closed containers away from direct sunlight and excessive heat

TECHNICAL DETAILS

Form : Ready to use viscous liquid

Mix Density : 1.26 + 0.02

Application temperature : 5°C to 50°C

CEMSEAL FLEXI

Heavy Duty Elastomeric Pure Acrylic Membrane

DESCRIPTION

CEMSEAL FLEXI is a flexible 100% water based pure acrylic membrane. Applied as a liquid, it cures to provide a barrier to carbonation and chloride ion infiltration. It bridges cracks and minor surface imperfections, protects against driving rain, provides outstanding durability and offers long lasting protection. Allows two way water vapour diffusion to enable the concrete structure to breathe. It Conforms to ASTM D-2370, ASTM D 412-02, BS EN 12390, ASTM D 4587, ASTM D 4541 & ASTM C 1202-97



ADVANTAGES

- 100% water based pure acrylic membrane.
- Bridges cracks and minor imperfections.
- Protects against all weather conditions.
- Provides outstanding durability..
- Resists fungus and algae, pollution, low dirt pick up.
- Non toxic and eco-friendly.

APPLICATIONS

- Bridges
- Industrial & commercial complex
- Metal roofs & walls
- Multistorey car parks
- New & existing concrete roofs & walls
- Residential buildings & bungalows
- Stadiums, airports & shopping malls
- Water tanks & pipes

TECHNICAL DATA

Colour	: White
Type	: Pure acrylic polymer, single component membrane
Consistency	: Paste
Solids by weight	: 59% \pm 2
Touch dry	: Approx 30 Mins.
Cure time	: 24 hours @30°C 50% RH
Cured Film	: Elastic & flexible
Elongation	: >100% at break @25°C (ASTM D2370)
Shore a hardness	: Approx 30
Temperature resistance	: -20°C to +100°C
Chemical Resistance	: Exceptional resistance to very harsh chemicals & spillage of gasoline, diesel, sewage, weak acid & alkali oil etc.

COVERAGE

3 to 4 sq metre per kg for 2 coats

PACKING

KG: 1,4,10,20

WATERSEAL

Surface Water Repellent

DESCRIPTION

CEMSEAL WATERSEAL is a highly efficient water repellent liquid for above ground porous brickwork, cement renderings, asbestos cements, cast concrete, roughcast, all stonework, wood and leather (including calcareous materials, i.e. those containing limestone). CEMSEAL WATERSEAL is completely colourless and does not alter colour texture of the brickwork, rendering or stone work. For maximum protection, a two coat application will normally prevent and cure penetration of rainwater through porous above ground structures. Depending upon the nature of the surface and conditions of exposure the treatment may be expected to give protection anywhere between 3 to 10 years.



Occasionally, cavity walls treated with expanded foam insulation can be found to be giving problems of damp patches which appear on internal walls after rainfall. This is usually interstitial condensation caused by a saturated outer leaf, or capillary action due to bridging of the cavity. The problem may be prevented by the application of one coat of CEMSEAL WATERSEAL, which allows the walls to shed water more easily and as the outer wall is thus constantly dry actually improves the insulation and reduces loss.

ADVANTAGES

- Makes the walls and stone water repellent while allowing it to breathe.
- To avoid fungus and moss growth
- Increases the durability of plaster and paint
- Maintains aesthetic sense of natural stones,
- Easy to use, avoids stains.

APPLICATIONS

Water repellent for porous brick work, cement rendering, concrete and old stone work.

PRODUCT DATA

Colour	: Light Milky solution
Drying point	: 3 - 4 hours
Flash point	: Not applicable
Shelf Life	: 1 year
Storage	: Store in cool dry place free from frost
Coverage	: 6 to 8 sq metre depending on porosity of the surface

SPECIAL PROPERTIES

- CEMSEAL WATERSEAL is for use on brickwork (Including clay and calcium silicate), renderings, in situ and precast concrete, stonework (including limestone), wood, unglazed tiles, canvas, and hessian.
- Ready to use
- It may be applied by brush and spray
- It will shed water borne dirt and retain surface contamination
- Helps to resist fungal growth by keeping brickwork dry & aids insulation. Is colourless and non-staining
- Transmits air water vapour
- Becomes effective immediately after drying
- May also be used as treatment for gypsum plaster and plaster board prior to wall- papering to permit subsequent removal of the wallpaper without damage to the blocking.
- Meets the requirement of BS 6477:1992 for substrate groups I & II

METASOL

Water Based Metal Primer

DESCRIPTION

CEMSEAL METASOL is most economical water based Primer for Metal & Steel. It has good adhesion & gives fairly good corrosion resistance to metal. It can be brushed or sprayed. It gives hard & tough coating on metal surface. It Conforms to IS 101/1987, part 1-Sec 6.



ADVANTAGES

CEMSEAL METASOL has good anti settling properties and offers good opacity, coverage, flow, leveling, good adhesion & good corrosion resistance.

APPLICATIONS

Water based anti corrosive coating for metal and steel.
Steel and metal furniture, steel and aluminum sheets.

PRODUCT DATA

Finish	: Semi Matt
Colour	: Redoxide, Black, Yellow, White & Light Grey
Drying time	: Surface dry - Less than 45 minutes Hard Dry - Less than 12 hours Over Coating Time - Minimum 6 Hours (Above properties depend upon temperature & humidity)
Covering Capacity on smooth mild steel surface	: 15 to 16 sq. mt./Ltr/Coat for 18 to 20 micron dry film thickness by brush depending upon surface.

TECHNICAL DETAILS

Flash point 18101/1987 Part 1, Sec 6 : >30°C [>85°F]

Stability of thinned paint : To be used within 24 hours

COVERAGE

15 to 16 sq meter per litre per coat for
18-20 micron dry film

PACKING

LTR: 1,4,10,20

CEMSEAL FLOOR HARDNER

Impact & Abrasion Resistant Floor Hardener

DESCRIPTION

CEMSEAL FLOOR HARDNER is a range of high quality grades aggregates conforming to British standard 812 - PART 3 : 1975 & IS 526 : 1970. Specially designed for uses where extremely high wearing resistance and dustproofing floors are expected e.g. loading bays, factories, warehouses, car-parkings, trucking lanes, workshop, garage, subway, power stations and abattoirs.



ADVANTAGES

- High impact resistance
- Non-dusting under wet condition.
- Easy and economical to apply
- Anti-slip floor surface
- Hardwearing and dustproof floor

PROPERTIES

COLOUR	: Dark Grey
Hardness	(Green & Blue can be provided as a specific requirement)
Storage life	: 7 on Mohs Scale. : Upto 12 months from date of manufacturing when stored according to manufactures Instruction.

RECOMMENDED COVERAGE

Light Traffic	: 3 kg per square meter
Medium Traffic	: 5 kg per square meter
Heavy Traffic	: 7 kg per square meter

PACKING

KG : 30

CEMGROUT - NS(GP-2)

NON - Shrink Foundation Grout - Cementitious

DESCRIPTION

CEMGROUT - NS (GP-2) is a cementitious based ready - to - use non shrink, non metallic compound, specially blended of portland cement, highly graded silica sands, plasticizing aids and expanding agent.

CEMGROUT - NS (GP-2) is non corrosive, non oxidizing and is free of chlorides and nitrates.

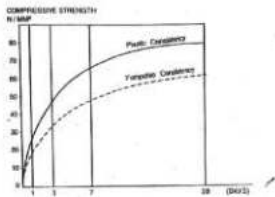


PROPERTIES

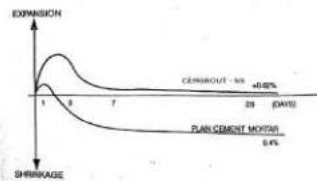
- Ready - to - use, only requires the addition of a predetermined amount of water
- Factory blended and packed to eliminate site variations and errors
- High compressive strength
- High early strength even at fluid consistency. Non- shrinking under restraint, free of bleeding and settlement
- Easy application in difficult access areas by pumping or pouring with flow consistency mix
- Excellent cohesiveness
- Long - term stability and durability
- Composition free of chlorides and metallic compounds
- Weatherproof

PRODUCT DATA

Colour	: Grey
Consistency	: Powder
Packing	: 20, 30 & 40Kg
Shelf life and storage	: 12 months if kept in dry condition and in the original sealed sack.



Compressive strength of CEMGROUT - NS (GP-2) in plastic and pumpable consistencies @ standard lab conditions.



Change of Volume - comparison between CEMGROUT - NS (GP-2) and plain cement mortar @ standard lab conditions.

CEMSEAL KRACKFILL

Non-shrink, High Strength Crack Filling Powder

DESCRIPTION

A non-shrink, high strength crack filling powder for surface cracks in plaster. CEMSEAL KRACKFILL powder is a specially formulated cement based polymer modified powder for filling cracks in plastered surfaces. Powder when mixed with water forms a creamy consistent paste which is easy to use for filling cracks in plastered surfaces.



BENEFITS

- Non shrinkage.
- Easy to apply.
- Strong.
- Long lasting.
- Helps in waterproofing the crack.

APPLICATION

Repairing of internal and external cracks in plastered surfaces.

TECHNICAL INFORMATION

Shelf Life	: 12 Months
Coverage	: Approx 60 RFT/KG for 5 mm x 5 mm crack
Nature	: White coloured powder
Storage	: Store in a cool and dry place

PACKAGING

1 KG & 20 KG

EXPERT TIP

Use Cemseal KRACKFILL + To Boost Strength, Bonding, Adhesion and Crack Bridging Capability Of Cemseal KRACKFILL to Enhance Waterproofing Quality. Add 200ML of KRACKFILL+ Per 1KG of KRACKFILL & 150ml water .

WOODSOL

Water Resistant Wood Primer With Anti Termite Formula

DESCRIPTION

Water Based WOODSOL:

WOODSOL is an anti termite formula to protect wood from swelling. It helps preventing blistering on wood. It penetrates, seals & fills the wood fiber & gives a very good adhesion to surface. Finished solution can be applied easily without absorbing and prevents from weather. Provides excellent adhesion. It conforms to IS 101/1987 part 1, Section 6.



BENEFITS

- Makes the woods water resistant.
- Provides good adhesion to wood.
- Anti termite.

APPLICATION

Water based wood coating to prevent wood from termite, swelling, blistering. To be applied on ply wood and blackboard wood etc.

PRODUCT DATA

Recommended Use	: Surface plywood, black board wood, pressed wood
Finish	: Semi matt
Colour	: White
Covering Capacity	: On smooth surface : 12 to 14 sq mt/ltr/coat for 15 micron dry film thickness depending upon surface by brush
Drying Time	: Single Coat at Standard thickness: Touch Dry : 4-6 hours, Recoat : 16-24 hours
Thinner recommended	: DM Water
PACKING	: LTR: 1,4,10,20

APPLICATION VISCOSITY

Brushing - 45 to 50 sec at 30° C by FC No 4

Spraying - 25 to 30 sec at 30° C by FC No 4

CONSPEED SPECIAL

Accelerator for Concrete (Modified Calcium Chloride Based)

DESCRIPTION

CONSPEED Special is an accelerating water-reducing admixture based on modified calcium chloride, designed to accelerate setting time by increasing the density and aiding the hydration reaction with calcium chloride. It conforms to BS 5075 : Part 1 : 1982 and ASTM C494-80 Type E.



SPECIAL PROPERTIES

- Speeds up the initial setting time, thus , enabling formworks to be removed earlier and re-used.
- Enables the production of workable, high early strength, higher density concrete with reduced tendency to segregate, bleed and creep.
- Aids compaction and the production of clear faced concrete.

TYPICAL APPLICATION

- CONSPEED Special is of particular value to the precast concrete industry where it is necessary for concrete to set more rapidly for greater productivity.
- Standard mix design methods may be used, reducing the cement content by Approximately 10% when compared with plain concrete at equivalent work ability. With harsh aggregates or gap-graded mixes, the cement reduction may be less than 10%; however, a marked improvement in cohesion will be achieved with reduced segregation and bleeding.

PRODUCT DATA

Colour	: Clear
Consistency	: Low viscosity liquid
Dosage	: 0.2 - 1.0 litres per 50 kg cement
Flash point	: Non - flammable
Storage	: Protect from extreme temperatures
Shelf life	: 12 Months in sealed container

PACKING

KG : 50, 250

MRA

Mould Release Agent

DESCRIPTION

MRA is specially formulated blend of fatty acids, which gives superior performance to conventional mould oils. The fatty acids react with the water in the concrete to form a thin water repellent barrier, thereby enabling easy stripping of the formwork from the concrete surface. MRA is a milky emulsion with water and contains rust inhibitor to impart anti-rust, anti-corrosion properties and a biocide to prevent bacterial growth in the emulsion. This oil has superior cooling and lubricating properties which impart excellent surface finish and minimises tool wear.

PROPERTIES

- MRA is a low viscosity, easily sprayable liquid or brush applied or with cotton waste.
- MRA is non-staining and is suitable for use with even white cement.
- MRA prevents rust forming on steel forms and can also be used to protect concreting plant after use
- MRA helps to reduce the cleaning time for formwork and concrete plant.
- MRA extends the life of the formwork due to the reduction of mechanical cleaning required.
- Allows air which would normally be trapped at the interface of the concrete and formwork to escape during vibration and reduces the incidence of blow holes in the concrete face. This reduces the surface imperfections and also the need for remedial surface treatments at a later stage.

APPLICATION

On new formwork, no preparation is required. On used formwork, preparation as below:

- (A) Steel, rubber and plastic formwork : All rust, grease and cement paste should be removed before application of MRA
- (B) Wooden formwork: All adhering cement paste should be removed and the surface scraped to remove any old mould oil that may be present.

PRODUCT DATA

Specific Gravity	: 0.80 to 0.90
Physical Appearance	: Pale amber coloured liquid
Chloride content	: NIL
Nitrate content	: NIL
Flash point	: 150°C
Storage	: 12 months from date of manufacturing in sealed containers, @ standard conditions.

COVERAGE

Coverage of formwork will vary considerably according to the type of form used. On new rust free steel forms rates up to 60 meter/litre will be obtained but on absorbent wooden forms this may be reduced to 30 meter/litre

PACKING

KG : 50, 250

CEMCURE S & W

Curing Compound

DESCRIPTION

	Curing Efficiency	Specification Compliance
- CEMCURE - Silica Based (CEMCURE-S)	In excess of 80%	ASTM C309 : 77 TYPE Class A
- CEMCURE - Wax Based (CEMCURE-W)	In excess of 90%	ASTM C309 : 77 TYPE Class B

CEMSEAL CEMCURE is a water based coating, specially designed to deposit a low cost and highly efficient curing membrane in the form of a film, which retains moisture and water in freshly placed concrete to ensure the strength development of the concrete, and with additional advantages of non-toxicity and the elimination of fire hazard.

SPECIAL PROPERTIES

- A water based low hazard material, non-flammable, low cost concrete curing system with high curing efficiency
- Enables the concrete to achieve harder and dust free surface
- Minimizes drying shrinkage and crazing (hair cracks) in concrete
- Designed specifically for application to exterior concrete pavements and mass concrete construction
- Ensures the strength development of the concrete
- CEMCURE provides solar reflective film



APPLICATION

- CEMSEAL CEMCURE is suitable for use under conditions of high temperature and is designed specifically for application to exterior concrete pavements and mass concrete construction. It is not recommended for use where the temperature is below 5°C
- For horizontal surface, the CEMSEAL CEMCURE should be applied to newly placed concrete as soon as the initial surface has disappeared from concrete face.
- For vertical surface, immediately upon removal of formwork, it is essential to clamp down the concrete surface with clean water prior to the application of CEMSEAL CEMCURE.

PRODUCT DATA

	Cemseal Cemcure -S	Cemseal Cemcure -W
• Appearance (wet)	: Milky white liquid	Milky white liquid
• Appearance (dry)	: Clear	White
• Flash point	: Non - flammable	Non- flammable
• Storage	: Protect from frost	Protect from frost
• Packing	: 210 litre drum	210 litre drum
• Appearance	: Solar reflective, water repellent tackfree film.	Solar reflective, water repellent, tackfree film

COVERAGE

The generally recommended rate of application of CEMSEAL CEMCURE is 5 square metre to 6 square metre per litre, and should be applied by low pressure pneumatic spray system or conventional knapsack sprayer, as evenly as possible on to the freshly placed concrete surface.

CEMPOXY – ULTRA

Multipurpose Epoxy Adhesive

DESCRIPTION

Cemproxy Ultra represents a two-component epoxy adhesive that offers exceptional bonding capabilities, capable of adhering anything from small components to large structural elements that doesn't have plastic/ polymer in it. This versatile system is composed of Epoxy resin and hardener, which must be thoroughly mixed in the recommended ratio to achieve the best results. Being a thermosetting system, Cemproxy Ultra involves the curing of the resin and hardener through polymerization to form a rigid thermoset mass. Although this mass may soften upon heating, it will not melt or flow. Notably, this adhesive does not contain any volatile substances like solvents or water, resulting in minimal shrinkage during the curing process. Thanks to its internally flexibilized composition, Cemproxy Ultra creates robust joints with excellent low creep properties, making it the ideal choice for various structural bonding applications.



ADVANTAGES

- FAST SETTING - Handling strength is achieved within 4 hours.
- High shear and peel strength
- Good electrical and thermal insulation properties
- Better pot life
- Water resistance
- Easy to apply
- Solvent free hence better mechanical & flexible strength to provide shock resistance
- Non-sagging nature helps in vertical applications
- Good solvent/Chemical resistance
- Better dimensional stability.
- Long lasting bond

APPLICATIONS

Cemproxy Ultra, a versatile structural adhesive, has found widespread use across numerous industries, making it an indispensable tool for engineers. Its applications span various sectors, including OEM, Wood Working Joinery, and Maintenance. This adhesive has demonstrated its value in countless scenarios, proving its effectiveness in areas like Wood Working, Automobile, Electronics, Electrical, Railway, Aeronautical, Construction, and various other engineering industries.

TECHNICAL INFORMATION

Specifics	Unit	Value
Mixing ratio	Weight/ Weight	100:80
Pot life @ 25° C	Minutes	35 to 45
Surface Dry of thin film @27° C	Minutes	60 to 90
Touch Dry of thin film	Minutes	150 to 180
Shear adhesion strength @ 28 days	Minutes	240 to 360
Adhesion Tensile Strength (MS-MS) at 35° C after 24 hours (tested at 30° C)	KG/ sq cm	> 160

CURING TIME versus TEMPERATURE

- Curing time depends on the weather temperature.
- Higher temperature results in faster curing.
- Care should be taken while subjecting the component to higher temperature

Mixing of Resin & Hardener

Resin & Hardener should be mixed thoroughly in volume 1:1 or in weight 100:80. The Resin and Hardener must be thoroughly mixed until they create a consistent and uniform blend.

COVERAGE

9 square meter per 1.8 KG on flat mating surfaces with 200 micron thickness.

PACKING

Grams: 450, 900
KG: 1.8

CEMQUICK

Ethyl Cyanoacrylate Adhesive

DESCRIPTION

Cemquick, an ethyl cyanoacrylate adhesive with low viscosity, is ideal for bonding a diverse array of materials when rapid curing is essential. Upon application of a thin layer of Cemquick between two surfaces, it reacts with atmospheric moisture, leading to swift polymerization and the formation of a strong bond.



APPLICATIONS

Cemquick is specifically designed to provide robust, versatile bonding for a variety of non-porous substrates such as plastics, rubbers, and metals, as well as porous materials like wood and leather. It is suggested for applications involving tightly fitting components and uniformly smooth surfaces. Additionally, it can be applied post-assembly to infiltrate parts effectively.

HOW TO USE?

- 1) Ensure that the surfaces intended for bonding are thoroughly cleaned and dried, preferably by solvent-wiping plastics, glass, and rubber, and by acid-treating metals if applicable.
- 2) Apply a single drop or several drops onto one surface only. Use just enough adhesive to create a thin film once compressed.
- 3) Press the parts together firmly and maintain pressure for a few seconds. Achieving good contact is crucial, and a sufficient bond typically forms in less than one minute.
- 4) Remove any excess adhesive from the container's top and securely recap Cemquick after use, as exposure to air can lead to contamination from moisture and subsequent deterioration.
- 5) Note that due to polymerization, Cemquick may sometimes exhibit whitening on the container's surface.

RESTRICTION OF USAGE

It will not bond PTFE, nylon, polypropylene etc.

SHELF LIFE

8 months from date of manufacturing. If seal is opened, shelf life doesn't apply.

STORAGE

- Keep products in the unopened container in a cool and dry location.
- Best when stored product in a cool, dry place at temperature 20-25°C.
- Temperatures less than 2°C can adversely affect product properties. Do Not Freeze.
- Keep packing tightly closed until ready for use.

PACKING

30 grams & 50 grams

SAFETY PRECAUTIONS

- Material taken out of containers could become contaminated during usage. Refrain from returning any unused product to its original container.
- Ensure proper ventilation when using.
- Avoid contact with skin and eyes. In case of skin contact, rinse with warm water or dissolve gradually with a solvent like acetone; do not attempt to forcibly remove.
- If adhesive enters the eye, keep the eye open and rinse thoroughly, then seek immediate medical attention.
- Keep out of the reach of children. For further details, refer to the material safety data sheet or contact on customer care number

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Reseal containers after use.

TECHNICAL INFORMATION & SERVICES

Further information and advice including practical demonstration are freely available from the technical service department of Cemseal Industries Ltd.

NOTE

- Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Cemseal representative.
- Cemseal reserves the right to have the true cause of any difficulty determined by accepted test methods.



Manufactured & Marketed by :
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