Cempoll
Construction
Chemicals

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Cempoll Construction Chemicals

About Us.

Cempoll Construction Chemicals was founded by Mr. Milind E Pawar in 2013 with a motto to serve the Construction Industry with best of the construction essential products and admixtures. We are a leading Manufacturer of a wide range of Premix Mortars, Industrial Flooring, Concrete Repairs, Waterproofing products, Protective Coating, Ready Mix Plaster, Tile Adhesives, Admixture etc. With over 30 years of experience in Manufacturing field Mr Pawar with his expertise and advanced technology machines have been able to offer a wide range of products in bulk quantity. Products offered by us are affordable and environment friendly and are prepared with quality tested material under timely supervision to provide maximum performance and long lasting effect.

CEMPOLL CONSTRUCTION CHEMICALS

Mission.

To serve construction industry with best of construction essential products and admixtures.

Vision.

To be India's most trusted and demanded brand in the next coming years.

Production Capacity
30 Tonnes Per Day

Unit Area
1 Acre

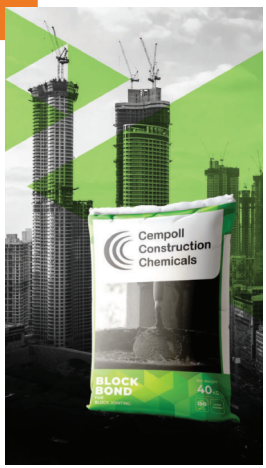







Our Range Of Products.

- Ready-mix Plaster
- Block Bond
- Coarse Putty
- Tile Adhesive (Flooring, Cladding & Stone Marble)
- TopHard (Non-Metallic Floor Hardener)
- GroutHard (Non Shrink Grout)
- Repair Mortar
- Waterproofing Slurry And Chemicals
- Concrete Admixtures



Block Bond

PRODUCTION DESCRIPTION:

CEMPOLL Block Bond is a Portland cement based powder mix which is polymer modified. The formulation includes selected high quality graded sands, special shrinkage compensating components plus powerful plasticizing agents which produce a workable thixotropic mortar at a low water content. The resulting mix enables thin joints between thermal blocks to be made. Horizontal and vertical joints are formed down to 3mm in thickness. These thin joints contribute to the maintenance of built wall U-values. Joint Mortar is supplied ready for onsite use requiring only the addition of measured mixing water. The mixed mortar will remain workable for one hours.

APPLICATION AREAS:

For interior and exterior use for preparing thin bed adhesive for AAC, ALC and cellular concrete blocks.

SUITABLE SURFACE:

- Concrete Blocks
- Cement Mortar Blocks/Bricks
- Concrete hollow blocks
- Aerated Light weight blocks
- Cellular concrete blocks
- Fly Ash Bricks

ADVANTAGES:

- High Strength
- No curing required after block work is done.
- Improved adhesion between two blocks
- Improved bond strength, compressive & tensile strength
- Thin jointing with high adhesion to contribute to load bearing capacity of masonry
- Easy to use
- Fast & economical

PACKAGING

40Kg BAG

COLOUR

Grey

COVERAGE

Coverage is based on smoothness and evenness of the substrate, size of blocks used and the thickness of mortar used. Generally 2 mm thickness bed of mortar will cover 140 sqft area

SHELF LIFE:

Factory sealed bags of this product are guaranteed to be of first quality for 6 months* if stored off the ground in a dry area.

*__Humidity might affect the shelf life of product.__

CAUTIONS:

- During cold weather, protect finished work from use until fully cured.
- Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.

TECHNICAL DATA:

Performance Properties: AAC BLOCK ADHESIVE mixed with water Test

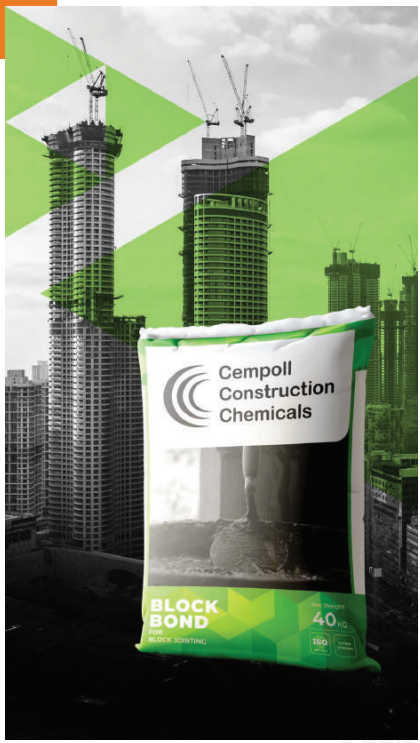
TEST	REQUIRED	RESULT
Compressive strength	6 N/MM2	8.96 N/MM2
Flexural strength	2.5 N/MM2	3.49 N /MM2
Tensile adhesion	0.49 N/MM2	0.86 N/MM2

WORKING PROPERTIES:

Bulk density	1.46 gm/cc
Water demand	20%
Pot life	1.5 hour
Final setting time	14 hours
Time to fully dry hard	14 days

INSTALLATION:

- Place the required amount of Dry-Mix AAC Block Mortar into a mixer or onto a non-absorbent surface.
- Add potable water gradually ensuring that it does not wash away any cement and mix thoroughly to ensure an even and consistent mix
- Form a mortar bed of approximately 3 to 5 mm thick end to end
- Place the AAC Block on the bed of mortar and remove any mortar that may be squeezed out when the AAC Block is placed and smoothen the joint. Any gaps that become apparent must be filled with mortar allowing the mortar to dry.
- All tools and equipment should be cleaned with water after use.
- Do not re-temper the mortar if it stiffens. Discard the stiffened product and make a new mortar.



COARSE PUTTY

PRODUCTION DESCRIPTION:

Cempoll Coarse putty is a coarse powder specially formulated to be used as base coat. It covers up undulation and can be used as a layer prior to use of Cempoll Fine wall putty or any painting system. It provides damp and weather resistant finish for further application of all kind of paints (Damp resistance means resistance to water in humid air & not to physical water leakages). It gives matt finish.

APPLICATION AREAS:

- Designed for interior and exterior surfaces.
- To make uneven surfaces to even and smooth.
- It can be used as plastering material for Internal application on AAC BLOCKS

SUITABLE SURFACE:

- Concrete & Concrete Masonry
- Cement Plaster
- AAC Block work

ADVANTAGES:

- Easy to apply.
- Water Resistance.
- Anti-fungal.
- Good Compressive Strength.
- Increases Paint coverage
- No curing required.
- Strong adhesion strength.
- Covers undulations of plastered surfaces
- Provides good base for putty application

PACKAGING

40Kg BAG

COLOUR

Grey White

COVERAGE:

100 sqft work done in 1.25-1.50 bag coarse putty upto 6-8mm. Coverage area depends on type of surface, its smoothness and evenness

WATER REQUIREMENT:

14 litre of water per 40 kg bag of coarse putty

SHELF LIFE:

Shelf life Cempoll coarse putty bag can be preserved for 3-4 months in cool and dry place in factory packed condition. Humidity and weather condition of particular site can affect shelf life. Conditions may vary site to site.

TECHNICAL DATA:

Performance Properties: AAC BLOCK ADHESIVE mixed with water Test

PROPERTY	RESULT
Initial setting time	60-80 minutes
Final setting time	180-220 minutes
Compressive Strength	9 n/mm2
Tensile adhesion	0.85 n/mm2
Pot life	2-2.5 hrs
Coat thickness	2-4 mm
Total thickness	10-12mm

COARSE PUTTY

Cempoll Construction Chemicals

SURFACE PREPARATION:

Surface should be free from all dirt, oil, grease, loose sand particles. If it is old painted wall then first scratch old surface. Dry and absorbent surfaces should bepre wet with clean water.

MIXING:

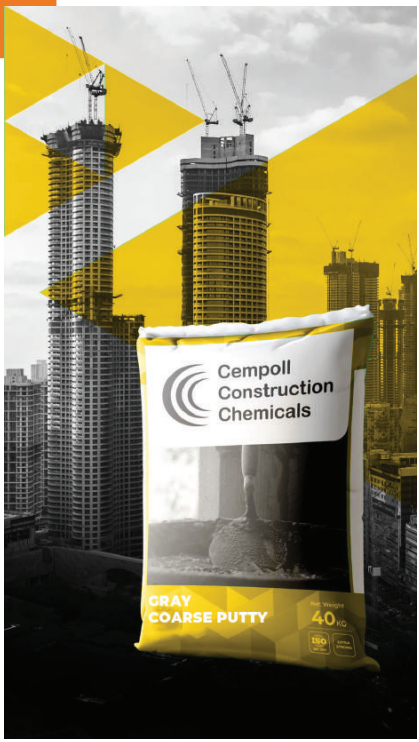
Use approximately 14L of fresh water for 40 kg CEMPOLL Grey coarse putty. Mix thoroughly till uniform (free from bubbles and lumps) paste occurs. Allow the mixture to rest for 5-10 minutes. Adjust consistency if necessary.

APPLICATION:

Apply one coat of the above paste on to the substrate with the trowel. The thickness allowed in one coat application is 3-5 mm. Ensure that the second coat application should be done when the first coat is totally dried. Always prepare a required quantity of putty paste and use it within 2-3 hrs.

NOTE:

- Do not directly apply on the fungus and moss affected areas.
- Do not apply directly on the dust, loosely bonded particles, oil, Grease etc. affected surfaces.
- Surfaces must be cement sand smooth plaster, structurally sound and stable.



READY-MIX PLASTER

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PRODUCTION DESCRIPTION:

Cempoll Ready Mix Plaster is a blend of ordinary portland cement, silica sand, Fibers fine graded sand and high quality admixtures, in the right proportions. It is ready to use by simply mixing water at the site and can be easily applied on brick, block and concrete surfaces.

APPLICATION AREAS:

Interior Wall and Exterior Wall

ADVANTAGES:

- Compact plaster, reduce void gaps.
- Negligible silt content
- Reduces rebounding
- Cempoll ready-mix plaster provides highly durable plaster that cuts repair the maintenance cost
- Ready to use
- Higher strength

SUITABLE SURFACE:

- AAC Block
- Red bricks
- Flyash bricks
- Cement mortar bricks
- Stone walls

PACKAGING

40 Kg
BOPP bag

COLOUR

Grey

COVERAGE:

15-17sqft coverage per 40kg bag of ready-mix plaster when applied with thickness of 10-12 mm. Coverage area depend on type of surface, its smoothness and evenness.

WATER REQUIREMENT:

6 litre of water per 40 kg bag of ready-mix plaster. Add Cempoll Ready-mix plaster in water.

SHELF LIFE:

Cempoll ready-mix plaster bag can be preserved for 3-4 months in cool and dry place in factory packed condition. Humidity and weather condition of particular site can affect shelf life. Conditions may vary site to site.

STRENGTH:

Results after 28 days

TEST	RESULT
Compressive strength	12 N/MM2
Pull out adhesion	0.50 N/MM2
Flexural strength	3.44 N/MM2

WORKING PROPERTIES:

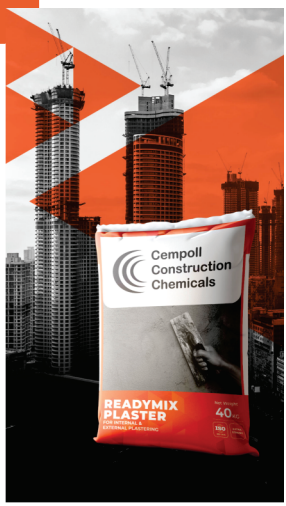
Maximum aggregate size	Less than 3 mm
Pot life	1 hr
Initial/final setting	3hrs/ 8 hrs
Dry density	1.6-1.8 kg/litre

PROBLEMS, POSSIBLE REASONS AND RECOMMENDATION:

PROBLEMS	POSSIBLE REASONS	RECOMMENDATIONS
Cracks are observed between ceiling and wall	Combination of two different material may result into cracks	Use fiber mesh between wall, column and ceiling/ Do grooving between ceiling and wall plaster
Wall joints are visible on plastered surface	Coat applied is very thin / Different rate of suction between the plaster and the bricks/blocks	Apply proper thickness
Falling of plaster during application	Due to gravity thick layer of plaster fall if thickness of plaster exceeds 12mm-15 mm	Keep thickness of plaster below 15mm/ apply cement slurry before plastering
Mix is not properly adhering to substrate	Quantity of water is inaccurate/mixing is improper and applied too early on substrate/ substrate was not wet enough using thin cement slurry/ some external material is added in mix/ plastering thickness is more than 12 mm in single coat/ plastering is done during rain.	Take water content between 13.5-14.5 %/ use electric mixer to mix 40 kg bag/ apply thin cemet slurry before application/clean the wall before plastering/ use the mixed material within 30 minutes of mixing
Cracks are observed on plastered wall	Improper wetting or mixing of substrate / in case dry mix applied for fast setting and finishing after plastering	Do proper wetting of substrate/ it should be properly mixed either by hand or using electric mixer/ do not apply dry mix for last setting and finishing of plaster

CAUTIONS:

- During cold weather, protect finished work from use until fully cured.
- Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water at least for 15 minutes and seek medical help if burning continues.
- Do not take internally. Silica sand may cause serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children



INSTALLATION METHOD SURFACE PREPARATION AND MIXING:

The application surface/substrate must be free from loose particles or any other foreign material prior to start of work/application of Cempoll Ready-mix plaster. Pre-wet surface with good quality fresh water, if necessary.

Pour a bag of Cempoll Ready Mix Plaster in 6 liters of water in clean bucket. Mix continuously by hand or using an electrical stirrer for 4-5 minutes to obtain a constant lump-free paste. Leave the mix to stand for 2-3 minutes and remix the plaster before use. Use the mixture within 60-90 minutes of preparation.

CEMPOLL READY MIX PLASTER OVER CONVENTIONAL PLASTER:

	CONVENTIONAL PLASTER	CEMPOLL CONSTRUCTION CHEMICALS	ADVANTAGES OVER CONVENTIONAL PLASTER
MANPOWER	PRACTICALLY HIGHER	LOWER MANPOWER AS PRODUCTS ARE READY TO USE	LESS MANPOWER MORE COST SAVING
COVERAGE	4.3 KG/SQFT (12MM THICKNESS)	3 KG/SQFT (12MM THICKNESS)	LESS MATERIAL REQUIRED MORE COST SAVING
MIXING	DIFFICULT	EASY	TIME SAVING AND COST SAVING
QUALITY	IRREGULAR	CONSISTENT	ASSURANCE OF BEST QUALITY THROUGHOUT BATCH
RAW MATERIAL	INCONSISTENCE	RAW MATERIALS ARE PROCESSED HENCE QUALITY ASSURANCE	GOOD RAW MATERIAL LEADS TO BEST QUALITY
WATER PERMIABILITY	HIGH	NEGLIGIBLE	NO WATER PERMEABILITY LEAD TO NO CRACKS AND NO LEAKAGES THROUGH STRUCTURE WHICH INCREASES DURABILITY OF STRUCTURE
WASTAGE (REBOUND)	MEDIUM TO HIGH WASTAGE	VERY LESS TO NO WASTAGE	COST SAVING AS NO MATERIAL WASTAGE

TILE ADHESIVE - C1 GRADE

Cempoll Construction Chemicals

PRODUCTION DESCRIPTION:

CEMPOLL Tile Adhesive is a polymer modified, grey cement-based thin-set tile adhesive for fixing high porosity tiles like ceramic/ clay tiles, terracotta and quarry tiles of regular size. It is suitable for both vertical and horizontal surfaces, over the cementitious substrate for indoor application, in dry as well as wet areas. It is recommended for installation of vitrified tiles on the floor.

ADVANTAGES:

- Easy to use - just add water on site, ready to use.
- Can be used in internal and external areas, for floor as well as wall application for 1x2 size tiles.
- Water resistant - suitable for wet areas.
- Good adhesive bond strength & Bonds to various cement-based substrates.
- Self-curing properties, which allows hassle-free application with minimum labour

LIMITATIONS:

- Do not apply directly to gypsum plaster or boards, fibre cement boards or other drywall partitions, plywood, chipboard, particleboard, decorative laminates or resilient flooring, metal, plastic, deformable surfaces or subject to vibrations.
- Adhesives for ceramic tile, bricks and stone are not designed as replacements for waterproof coating. Use Cempoll waterproofing coating before tiling for wet area.
- Do not use for fixing artificial/ nano/ engineered stone/ composites/ metal tile.

PACKAGING

20 Kg BAG

SHELF LIFE:

12 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature.

TECHNICAL DATA:

TESTING PROPERTIES	TEST RESULTS
WATER REQUIREMENT	20% (4 LITRE PER 20 KG BAG)
MIXED DENSITY	1830 KG/LITRE
POT LIFE	95 mins
OPEN TIME	Approx. 20 mins
ADJUSTABILITY	Approx. 15 mins
TENSILE ADHESION	0.7 N/ MM2
SHEAR ADHESION	1.7 N/ MM2
ADHESIVE THICKNESS	3-8 mm
COMPRESSIVE STRENGTH (28 DAYS)	10.30 N/MM2

AREA OF USE:

MATERIAL TO BE FIXED	ON SURFACE/ SUBSTRATE	AREA OF APPLICATION
All types of ceramic tiles and vitrified tiles.	Cement based screeds, cement-based plasters, concrete surface, bricks, other cement-based surfaces.	Flooring and walls, for internal application.

TILE ADHESIVE - C1 GRADE

APPLICATION INSTRUCTIONS:

- The substrate must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising.
- All surfaces must be plumb and true to within 6 mm in 10 ft (3m).
- Dry, dusty surfaces should be dampened with water & excess water should be swept off.
- New concrete slabs shall be damp cured and 28 days old before application which will reduce the shrinkage from tile fixing surface.
- Expansion joints to be provided & filled with suitable sealant.
- Do not cover expansion joints with thin set tile adhesive/ tile.

MIXING:

- Add 4-5 litre water for 20 Kg powder in a clean mixing vessel.
- Adjust the water as per desired consistency.
- Mix with a suitable mechanical stirrer or slow speed drills (50 - 100 rpm) until a lump free homogeneous paste is obtained.
- Always mix required quantity, which can be consumed within pot life.
- Leave mixture for 5 minutes before use.
- No further water should be added.

APPLICATION:

- Apply adhesive to the substrate with the flat side of the trowel
- Comb on additional adhesive with the notched side.
- Use the proper sized notched trowel to ensure full bedding of the tile.
- Tiles must be fixed within 15-20 minutes of adhesive being applied, depending on the porosity of the surface and atmospheric conditions.
- Check the adhesive ribs periodically and if a skin has formed, remove the dried adhesive and apply fresh adhesive.
- Press the tiles firmly into position with a slight twisting action, checking periodically that good contact is maintained with the back of each tile and beat in using rubber mallet to imbed tile and adjust level.
- Leave no voids behind tiles.
- For large size tiles or irregular surfaces, adhesive can additionally be buttered on the backs of the tiles to ensure full adhesive contact.
- Use suitable support along with adhesive for fixing tiles on vertical surfaces.
- Leave adequate joints between individual wall and floor tiles. The joint width shall be as per the recommendation of architect / engineer.
- Clean off surplus adhesive from the tile face and between joints.

TILE ADHESIVE - C1 GRADE

PRECAUTIONS & NOTE:

- Always add powder to water.
- Do not add excess water than recommended.
- Never add sand & cement at site.
- Do not use on wet screed. Surface must be fully cured.
- Do not use the adhesive to correct surface irregularities greater than 15 mm.
- Protect from direct rainfall/ foot traffic for at least 24 hours.
- Leave gap between the tile & fill gaps with CEMPOLL tile grout.

COVERAGE:

- Approx. 5 - 6 m^2/ 20 kg Bag at 3 mm thickness (using 6 mm x 6 mm notch).
- Approx. 1.2 kg/ m^2 per mm of thickness.

  Coverage will vary depending on trowel notch size, type, size of tile and substrate smoothness and evenness.

PACKAGING

20Kg BAG

SHELF LIFE

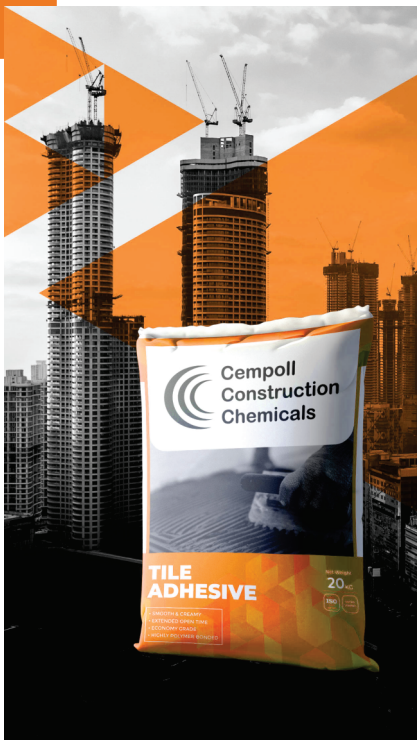
12 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature.

GROUTING:

Grouting should be carried out after 24 hours of tiling. Use the appropriate grouting material from CEMPOLL range of cementitious and epoxy grouts.

SAFETY PRECAUTIONS:

Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Limited to professional use only.



TILE ADHESIVE - C2 GRADE

Cempoll Construction Chemicals

PRODUCTION DESCRIPTION:

CEMPOLL C2 Tile Adhesive is a polymer modified, grey cement-based thin-set tile adhesive for fixing high porosity tiles like ceramic/ clay tiles, terracotta and quarry tiles of regular size. It is suitable for both vertical and horizontal surfaces, over the cementitious substrate for indoor application, in dry as well as wet areas. It is recommended for installation of vitrified tiles on the wall.

ADVANTAGES:

- Easy to use - just add water on site, ready to use.
- Can be used in internal and external areas, for floor as well as wall application for 4x2 size tiles.
- Water resistant - suitable for wet areas.
- Good adhesive bond strength & Bonds to various cement-based substrates.
- Self-curing properties, which allows hassle-free application with minimum labour

LIMITATIONS:

- Do not apply directly to gypsum plaster or boards, fibre cement boards or other drywall partitions, plywood, chipboard, particleboard, decorative laminates or resilient flooring, metal, plastic, deformable surfaces or subject to vibrations.
- Adhesives for ceramic tile, bricks and stone are not designed as replacements for waterproof coating. Use Cempoll waterproofing coating before tiling for wet area.
- Do not use for fixing artificial/ nano/ engineered stone/ composites/ metal tile.

TECHNICAL DATA:

TESTING PROPERTIES	TEST RESULTS
WATER REQUIREMENT	20% (4 LITRE PER 20 KG BAG)
MIXED DENSITY	1830 KG/LITRE
POT LIFE	100 mins
OPEN TIME	Approx. 20 mins
ADJUSTABILITY	Approx. 15 mins
TENSILE ADHESION	1.30 N/mm2
SHEAR ADHESION	2.1 N/mm2
ADHESIVE THICKNESS	3-8 mm
COMPRESSIVE STRENGTH (28 DAYS)	11.25 N/MM2

AREA OF USE:

MATERIAL TO BE FIXED	ON SURFACE/ SUBSTRATE	AREA OF APPLICATION
All types of ceramic tiles and vitrified tiles.	Cement based screeds, cement-based plasters, concrete surface, bricks, other cement-based surfaces.	Flooring and walls, for internal external application.

APPLICATION INSTRUCTIONS:

- The substrate must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising.
- All surfaces must be plumb and true to within 6 mm in 15 ft.
- New concrete slabs shall be damp cured and 28 days old before application which will reduce the shrinkage from tile fixing surface.
- Expansion joints to be provided & filled with suitable sealant.
- Do not cover expansion joints with thin set tile adhesive/ tile.

TILE ADHESIVE - C2 GRADE

MIXING:

- Add 4-5 litre water for 20 Kg powder in a clean mixing vessel.
- Adjust the water as per desired consistency.
- Mix with a suitable mechanical stirrer or slow speed drills (50 - 100 rpm) until a lump free homogeneous paste is obtained.
- Always mix required quantity, which can be consumed within pot life.
- Leave mixture for 5 minutes before use.
- No further water should be added.

APPLICATION:

- Apply adhesive to the substrate with the flat side of the trowel.
- Comb on additional adhesive with the notched side.
- Use the proper sized notched trowel to ensure full bedding of the tile.
- Tiles must be fixed within 15-20 minutes of adhesive being applied, depending on the porosity of the surface and atmospheric conditions.
- Check the adhesive ribs periodically and if a skin has formed, remove the dried adhesive and apply fresh adhesive.
- Press the tiles firmly into position with a slight twisting action, checking periodically that good contact is maintained with the back of each tile and beat in using rubber mallet to imbed tile and adjust level.
- Leave no voids behind tiles.
- For large size tiles or irregular surfaces, adhesive can additionally be buttered on the backs of the tiles to ensure full adhesive contact.
- Use suitable support along with adhesive for fixing tiles on vertical surfaces.
- Leave adequate joints between individual wall and floor tiles. The joint width shall be as per the recommendation of architect / engineer.
- Clean off surplus adhesive from the tile face and between joints.

PRECAUTIONS & NOTE:

- Always add powder to water.
- Do not add excess water than recommended.
- Never add sand & cement at site.
- Do not use on wet screed. Surface must be fully cured.
- Do not use the adhesive to correct surface irregularities greater than 15 mm.
- Protect from direct rainfall/ foot traffic for at least 24 hours.
- Leave gap between the tile & fill gaps with CEMPOLL tile grout.

COVERAGE:

- Approx. 5 - 6 m^2/ 20 kg Bag at 3 mm thickness (using 6 mm x 6 mm notch).
- Approx. 1.2 kg/ m^2 per mm of thickness.
- Coverage will vary depending on trowel notch size, type, size of tile and substrate smoothness and evenness.

PACKAGING

20Kg BAG

SHELF LIFE

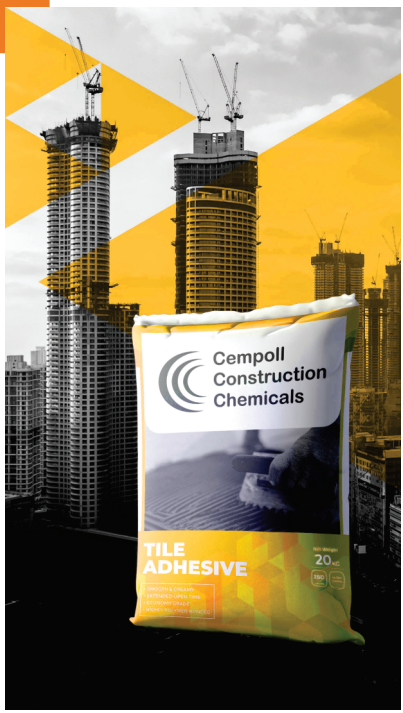
12 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature.

GROUTING:

Grouting should be carried out after 24 hours of tiling. Use the appropriate grouting material from CEMPOLL range of cementitious and epoxy grouts.

SAFETY PRECAUTIONS:

Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Limited to professional use only



TILE ADHESIVE H GRADE

Cempoll Construction Chemicals

DESCRIPTION

CEMPOLL H GRADE tile adhesive is a highly polymer-modified cement based powdered tile adhesive for fixing all type of ceramics, clay tiles, basalt tiles, semi-vitreous tiles, vitrified tiles, mosaic tiles, porcelain tiles & natural stones of regular size on a variety of surfaces. It is suitable for both vertical and horizontal application. It gives excellent bond on exterior cementitious surfaces like plaster or concrete, etc

FEATURES AND ADVANTAGES

- 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.
- Sustains heat aging, making it ideal for high-temperature locations.
- Highly polymer-modified – provides high adhesion strength to bond with variety of substrates for fixing a variety of tiles and stones.
- Can be used in internal and external areas, for floor as well as wall.
- Water resistant - suitable for wet areas.
- Good adhesive bond strength & Bonds to various cement-based substrates.
- Self-curing properties, which allows hassle-free application with minimum labour

LIMITATIONS

- Do not use for fixing artificial/ nano/ engineered stone/ composites/ metal tile.
- Can be used in internal and external areas, for floor as well as wall.
- Water resistant - suitable for wet areas.
- Good adhesive bond strength & Bonds to various cement-based substrates.
- Self-curing properties, which allows hassle-free application with minimum labour

TECHNICAL DATA:

TESTING PROPERTIES	TEST RESULTS
WATER REQUIREMENT	21%(4.2 LITRE PER 20 KG BAG)
MIXED DENSITY	1830KG/LITRE
POT LIFE	120mins
OPEN TIME	Approx.20mins
ADJUSTABILITY	Approx.15mins
TENSILE ADHESION	1.65N/mm2
SHEAR ADHESION	2.30N/mm2
ADHESIVE THICKNESS	4-12mm
COMPRESSIVE STRENGTH (28DAYS)	15 N/mm2

AREA OF USE:

MATERIAL TO BE FIXED	ON SURFACE/ SUBSTRATE	AREA OF APPLICATION
All types of ceramic tiles,vitrified tiles and natural stones.	Cement based screeds, cement-based plasters, concretesurface,bricks, other cement-basedsurfaces.	Flooring and walls, forexternal application.

APPLICATI ON INSTRUCTIONS

- The substrate must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising.
- All surfaces must be plumb and true to within 6 mm in 15 ft.
- New concrete slabs shall be damp cured and 28 days old before application which will reduce the shrinkage from tile fixing surface.
- Expansion joints to be provided & filled with suitable sealant.
- Do not cover expansion joints with thin set tile adhesive/ tile.

TILE ADHESIVE H GRADE

MIXING

- Add 4.2 litre water for 20 Kg powder in a clean mixing vessel.
- Adjust the water as per desired consistency.
- Mix with a suitable mechanical stirrer or slow speed drills (50 - 100 rpm) until a lump free homogeneous paste is obtained.
- Always mix required quantity, which can be consumed within pot life.
- Leave mixture for 5 minutes before use.
- No further water should be added.

APPLICATION

- Apply adhesive to the substrate with the flat side of the trowel.
- Comb on additional adhesive with the notched side.
- Use the proper sized notched trowel to ensure full bedding of the tile.
- Tiles must be fixed within 15-20 minutes of adhesive being applied, depending on the porosity of the surface and atmospheric conditions.
- Check the adhesive ribs periodically and if a skin has formed, remove the dried adhesive and apply fresh adhesive.
- Press the tiles firmly into position with a slight twisting action, checking periodically that good contact is maintained with the back of each tile and beat in using rubber mallet to imbed tile and adjust level.
- Leave no voids behind tiles.
- For large size tiles or irregular surfaces, adhesive can additionally be buttered on the backs of the tiles to ensure full adhesive contact.
- Use suitable support along with adhesive for fixing tiles on vertical surfaces.
- Leave adequate joints between individual wall and floor tiles. The joint width shall be as per the recommendation of architect / engineer.
- Clean off surplus adhesive from the tile face and between joints

PRECAUTIONS & NOTE

- Always add powder to water.
- Do not add excess water than recommended.
- Never add sand & cement at site.
- Do not use on wet screed. Surface must be fully cured.
- Do not use the adhesive to correct surface irregularities greater than 15 mm.
- Protect from direct rainfall/ foot traffic for at least 24 hours.
- Leave gap between the tile & fill gaps with CEMPOLL tile grout.

COVERAGE

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

  Approx. 1.2 kg/ m per mm of thickness.
- Coverage will vary depending on trowel notch size, type, size of tile and substrate smoothness and evenness.

PACKAGING

20 kg Bag

SHELF LIFE

6 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature.

GROUTHARD 50

Single Component Free Flow
Non-Shrink High Strength Grout

DESCRIPTION

Grout Hard 50 is free flow non-shrink grout specially designed for use where high strength and high fluidity is required. It is formulated as a natural aggregate system with a shrinkage-compensating binder and is highly flow-able without sacrificing strength or performance capabilities. Grout Hard 50 is formulated to provide consistency and exacting performance in critical grouting operations. This also can be used as a repair product in various types of application in projects

Grout Hard 50 complies with ASTM C 1107

CHARACTERISTICS

Compressive Strength 70 mm cube, N/mm2		Setting Time, 30 °c, Hr.	
1 Day	12	Initial	3 hr 30 min
3 Days	25.6	Final	6 hr 30 min
7 Days	37.8	Flow Rate, Cm.	15-20
28 Days	56	Yield for 25 kg bag, M^3	0.0125

Grout Hard 50 complies with ASTM C 1107

APPLICATION

- Heavy duty grouting of machinery and equipment.
- Bridge Seats
- Structural columns
- Bending plates
- Crane rails

ADVANTAGES

- Highly fluid and quickly place able for easy field use.
- High strength for maximum load bearing.
- Non-Shrink with minimum positive expansion for high tolerance performance.
- Non-bleeding and non-segregating at a fluid consistency.
- Does not contain any chlorides or additives which may contribute to corrosion of base structure.
- Total shrinkage compensation, which provides a maximum bearing surface for the greatest overall support.
- Rapid strength gain to minimize turnaround time for equipment installation.
- Excellent working time at high ambient temperatures.

APPLICATION METHODOLOGY

- Ensure that concrete surface is clean, sound, rough and is free from any standing water, oil, dirt, debris, paint, unsound concrete or other contaminants.
- Ensure that surface temperature & ambient temperature is not < 5 O C and > 40 O C.
- As a precautionary measure, remove all residue with a vacuum cleaner or pressure washing.
- Pre-soak the pit to be grouted with water to ensure a saturated surface during the grouting process.
- Mix 25 kg GroutHard 50 with 4.2 L of water. Where grouting is to be done for deeper thickness (Bolt pocket grouting), add about 10-11 kg of gravel per 30 kg of GroutHard 50.
- Use requisite quantity of water to achieve desired flow level of GroutHard 50. Do not add excess water as this may lead to bleeding & segregation. Do not add sand / cement to GroutHard 50 as this may change its properties.
- Pour grout immediately after mixing from the one side into a watertight shuttering around the machine basement / structure. Ensure that the air dispensed by pouring grout escapes and air entrapment is avoided. The grouting should be continuous and maintain sufficient pressure head to keep grout flowing. To prevent grouts from leaking out, use wooden or MS shuttering material.

  When grouting base-plate, pour grout into the head box and allow to flow under the plate. Straps pre-placed under the plate will aid in working the grout across. Grout should be placedat minimum of 25 mm

GROUTHARD 50

Single Component Free Flow
Non-Shrink High Strength Grout

- thick and a maximum of 150 mm per lift when placed in a large mass.
- Bring all GroutHard 50 materials as well as foundation and base-plate as close to room Temperature as possible. Cold tempera-tures will significantly reduce flow characteristics and will enhance difficulty of base-plate grouting. Higher tempera-tures will increase initial flow but cut down on working time.
- Ensure proper curing of GroutHard 50 to achieve optimal durability / performance of grout. Wet cure the grout until forms are stripped. Then cure the grout with high solid curing compounds. Improper curing schedule may lead to crack formation.

CLEANING & MAINTENANCE

Tools and mixer may be cleaned with water immediately

PACKING

Available in 25 kg bag.

STORAGE

Store in cool dry place, under the shed, away from heat.

HEALTH & SAFETY

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice.
- Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

GROUTHARD 70

Single Component Free Flow
Non-shrink High Strength Grout

TECHNICAL CHARACTERISTICS AT 27°C

Compressive Strength (ASTM C 109) n / mm			Setting Time, (ASTM C 191-A) hrs. • Initial • Final	3.5-4 6 - 6.5
Age (days)	Flowable (w/p=0.18)	Pourable (w/p=0.16)		
1	29	25	Water required per 25 kg bag, ltr*	
3	49.57	48-53	• Flowable consistency	4.5
7	66.94	63-69	• Pourable consistency	4.0
28	85.73	79-86		
Flow Table Flow Rate, cm (BS Cone)			Approximate Yield for 25 kg bag, m^3 **	0.010
Flowable (w/p=0.18) 26-28	Pourable (w/p=0.16) 18-22		Height change, (ASTM C 1090) @ 1, 3, 7, 28 days, %	0.0 - 0.3

*Do not add water in an amount that will cause bleeding or segregation. More or less water may be required to achieve the desired placing consistency, depending on temperature and other variables. Do not add sand or cement to the grout since this action will change its precision grouting characteristics.

** Allowance should be made for wastage when estimating quantities required.

PRODUCT INFORMATION

Form - Colour	Grey dry powder
Handling & Storage	Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. Store in a dry environment off the ground.
Packaging	Available in 25 kg moisture resistant bags.
Shelf Life	6 Months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 40°C.
Handling 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. Keep away from children and animals. After opening the seal, always consume total material.

DESCRIPTION

GroutHard 70 is a high-strength, non-metallic, non-shrink grout designed for precision grouting and general construction applications. It can be mixed to a fluid, flowable, or plastic consistency requiring only the addition of clean water. It is formulated as a natural aggregate system with a shrinkage-compensating binder and is highly flow-able without sacrificing strength or performance capabilities. It can also be used for anchoring a wide range of fixings. These include masts, anchor bolts and fenceposts.

FIELD OF APPLICATION

- Heavy duty grouting of machinery and equipment.
- Ball Mills in cement plants
- Petro-chemical & fertilizer units
- Bridge Bearing plates
- Bearing plates & Textile machineries
- Anchor bolts and bars
- DG sets Base foundation
- Fence posts

APPROVALS / STANDARDS

ASTM C1107

GROUTHARD 70

Single Component Free Flow
Non-shrink High Strength Grout

ADVANTAGES

- Highly fluid and extremely place-able for easy field use.
- High strength for maximum load bearing.
- Non-Shrink with minimum positive expansion for high tolerance performance.
- Non-bleeding and non-segregating at a fluid consistency.
- Does not contain any chlorides or additives which may contribute to corrosion of base structure.
- Total shrinkage compensation, which provides a maximum bearing surface for the greatest overall support.
- Rapid strength gain to minimize turnaround time for equipment installation.
- Excellent working time at high ambient temperatures.
- Economical, greater volumes of grout can be mixed and handled.

APPLICATION METHODOLOGY

- Ensure that concrete surface is clean, sound, rough and is free from any standing water, oil, dirt, debris, paint, unsound concrete or other contaminants.
- Ensure that surface temperature & ambient temperature is not < 5°C and > 40°C.

  As a precautionary measure, remove all residue with a vacuum cleaner or pressure washing.
- Pre-soak the concrete with water to ensure a saturated surface during the grouting process.
- Mix 25 kg GroutHard 70 with 4.5 L water for flowable consistency. Where grouting is to be done for deeper thickness, > 100 mm (bolt pocket grouting), add about 13 – 25 kg of aggregateper 25 kg of GroutHard 70 .
- Use requisite quantity of water to achieve desired flow level of GroutHard 70. Do not add excess water as this may lead to bleeding & segregation. Do not add sand / cement to GroutHard 70 as this may change its properties .
- Pour grout immediately after mixing from the one side into a watertight shuttering around the machine basement / structure. Ensure that the air dispensed by pouring grout escapes and air entrapment is avoided. The grouting should be continuous and maintain sufficient pressurehead to keep grout flowing . To prevent grouts from leaking out, use wooden or MS shuttering material.
- When grouting base-plate, pour grout into the head box and allow to flow under the plate. Straps pre-placed under the plate will aid in working the grout across. Grout should be placed at minimum of 25 mm thick and a maximum of 150 mm per lift when placed in a large mass. This will avoid any crack formation after curing.
- Bring all GroutHard 70 materials as well as foundation and base-plate as close to room temperature as possible. Cold temperatures will significantly reduce flow characteristics and will enhance difficulty of base-plate grouting. Higher temperatures will increase initial flow but cut down on working time.
- Ensure proper curing of GroutHard 70 to achieve optimal durability / performance of grout. Wet cures the grout until forms are stripped. Then cure the grout with high solid curing compounds.
- Improper curing may lead to crack formation for depth higher than 100 mm. Used of gravels is recommended for bigger depth.
- Ensure potable water during mixing with GroutHard 70.

CURING

- Curing is essential to optimize physical properties of the concrete and minimize plastic shrinkage. Continuously moist cure for a minimum period of 7 days.
- Alternatively, moist cure for a minimum period of 24 hours and apply a curing compound.
- Curing is particularly critical in rapid moisture loss conditions such as high temperatures, high winds and low humidity.

GROUTHARD 70

Single Component Free Flow
Non-shrink High Strength Grout

PRECAUTIONS

- Additions of cement or other materials (other than gravel when extended as previously noted) will eliminate the designed product qualities.
- Water quantities may be affected by temperature, mixing method and batch size.
- Use a consistent water temperature when mixing multiple batches, to prevent performance fluctuations.

VALUE BASE OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

MATERIAL HEALTH & SAFETY

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice.
- Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

CLEANING & MAINTENANCE

Tools and mixer may be cleaned with water before of GroutHard 70 has hardened; otherwise, mechanical cleaning will be required.

TOPHARD

Non-metallic Floor Hardener

DESCRIPTION

CEMPOLL TopHard is a ready to use Non Metallic floor and surface hardener, it is a factory blended powder containing special hard wearing aggregates. CEMPOLL TopHard is a blend of port land cement and special additives whichproduces material easytotrowel intofreshwetconcrete. CEMPOLL TopHard provides adensenon-porous surfacewhich is extremely hard wearing and abrasion resistant. It can be applied for wet rooms as well as outdoor applications.

USES-

Cempoll TopHard provides a good abrasion resistant concrete surface by dry shake method which ensures monolithic bonding with the fresh laid concrete Recommended for the following area

- Loading and unloading bays,
- Machine shops,
- Packing areas,
- Storage area,
- Workshops,
- Concrete roads

FEATURES AND BENEFITS

- Non Metallic Does no trust
- Easy to trowel in to the fresh surface concrete.
- Reduces Surface wear whic har enon-dusting.
- Extend the life of the flooring with increased Impact and abrasion resistance
- Monolithic bond with the basecon crete Facilitate seasy cleaning.
- Suitable for repair so fold floor sand toppings for new floor.
- The surface density is high, increased resistance to oil and grease penetration.
- Economical.

APPLICATION

Level the freshly poured concrete with suitable mechanical equipment and smoothen it with mechanical tool like trowel etc. Before commencement of the application, the base concrete should be checked by pressing thumb hard on the surface, it should leave an impression of 3 to 5 mm depth.

The application is made in two stages

1) The first application is made using 50% to 70% of the required material. It is evenly broadcasted manually on the Concrete surface and when the material or surface becomes dark by absorbing the moisture from the concrete the first application can be floated.
2) Wooden floats or power trowel swith disc can be used. Care should be taken that it is not over floated.
3) The second application is made immediately after by evenly broadcasting the balance material and when the surface becomes dark by absorbing the Concrete surface moisture has darkened with the absorption of water itshall be floated in the same way as before.
4) Final finishing shall be carried out after the surface has sufficiently stiffened to close any pores and to remove any disc marks.
5) While applying Flo Arm Floor Hard at the edges of the concrete floor or, at the end of bays, extra precaution should be taken by way of sprinkling more material and finishing it smoothly with a steel trowel. This is an additional protection particularly to bay edges where the reaction due to heavy impact is more.

The time of application is very important in order to derive full benefits. If Cempoll TopHard is applied too early, it will absorb water and may sink to the bottom. If application is delayed, no moisture from the concrete surface will be available from the concrete to hydrate TopHard, resulting in poor pitted surface. As a general guidance the application should be made within 1 hour depending on the temperature and humidity.

TOPHARD

Non-metallic Floor Hardener

CURING -

Proper curing of concrete floor is essential to ensure physical properties. Water curing by ponding is recommended for 7 days.

TECHNICAL DATA

APPEARANCE	GREY POWDER
Abrasion Resistance Moh, s Hardness	150% increase in abrasion resistance compared to control Aggregate in TopHard have Moh's Hardness not less than 7
Compressive strength	>50 mpa

PACKAGING

25 kg pack

STORAGE AND SHELF LIFE

12 months if stored in cool dry shaded condition in original sealed pack

CONSUMPTION

Application rate Kg/M2 Intended traffic use Avg Wear (IS1237-1980)

7	kgs	Heavy	>2MM
5	Kgs	Medium	>2<3.5mm
3	kgs	Light	>3.5<4mm

HEALTH AND SAFETY

CempollTopHard should be applied with gloves and care should be taken to see that it does not fall on skin or eyes. Splashes on to eyes have to be immediately washed with plenty of clean water and medical advice has to be taken

CEMFIX RM 40

Polymer Modified Fiber Reinforced Mortar

PRODUCT DESCRIPTION

Cempoll CEMFix RM 40 is a ready to use single component polymer modified repair mortar. It is specially designed for repairs of RCC members like beams, columns and slabs because of its good compressive strength and shrinkage resistance. It is pre-blended with special additives which provides it excellent workability and adhesion to host concrete/ masonry surfaces

PRODUCT FEATURES

Easy to use : Single component ready to use powder which only requires addition of water at site Shrinkage compensation: Dual shrinkage compensated and hence crack resistant

Bonding: Excellent bond strength to concrete and other masonry substrates

Strength: Develops high initial and ultimate compressive strength

Thickness: Suitable for repair of thickness up to 50 mm (maximum thickness in a single coat: 25 mm)

RECOMMENDED USAGE

Repair of damaged beams, columns and other RCC members Patch repair of PCC and other non-reinforced masonry surfaces

PRODUCT INFORMATION	
APPEARANCE	Free flowing grainy grey powder
PACK SIZE	25 kg
STORAGE CONDITIONS/ SHELF-LIFE	6 months. When kept in cool and dry place unopened

PRECAUTIONS & LIMITATIONS

Minimum thickness to be maintained 10 mm. For higher thickness more than 25 mm, bond coat is recommended before applying second coat. Strictly maintain water powder ratio. Temperature of the mix should be maintained at approx. 30°C. During summer use cold water and in winters use warm water to regulate the temperature of the mix. Mechanical stirrer to be used for mixing, avoid hand mixing

TECHNICAL DETAILS

Properties	Result
Water requirement	16%-18%
Pot life	mins
Compressive strength	18 Mpa at day 1 42 Mpa at day 28
Flexural strength	7 Mpa
Tensile strength	2.8 Mpa
Wet density	2250 kg/m3
Recommended Thickness	12-50 mm

APPLICATION PROCESS

SURFACE PREPARATION

1. Surface should be completely free of laitance, oil, dust, grease, plaster, paint, corrosion etc.
2. Smooth surface should be mechanically roughened by scrabbling or needle gun to form a good key.
3. Edges of the areas for repair must be saw cut to 12 mm to avoid feather edging.
4. The substrate should be thoroughly soaked with clean water and any excess should be removed. Apply bonding agent if required.

MIXING & APPLICATION

Cempoll CEMFix RM 40 must be mixed with a slow speed drill (500 rpm) fitted with a spiral paddle. Mix 25 kg bag in 5 lit of clean & potable. Always put powder in to water. Mix for at least3 minutes for lump free consistency and apply using a steel trowel

OUR CLIENTS

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