

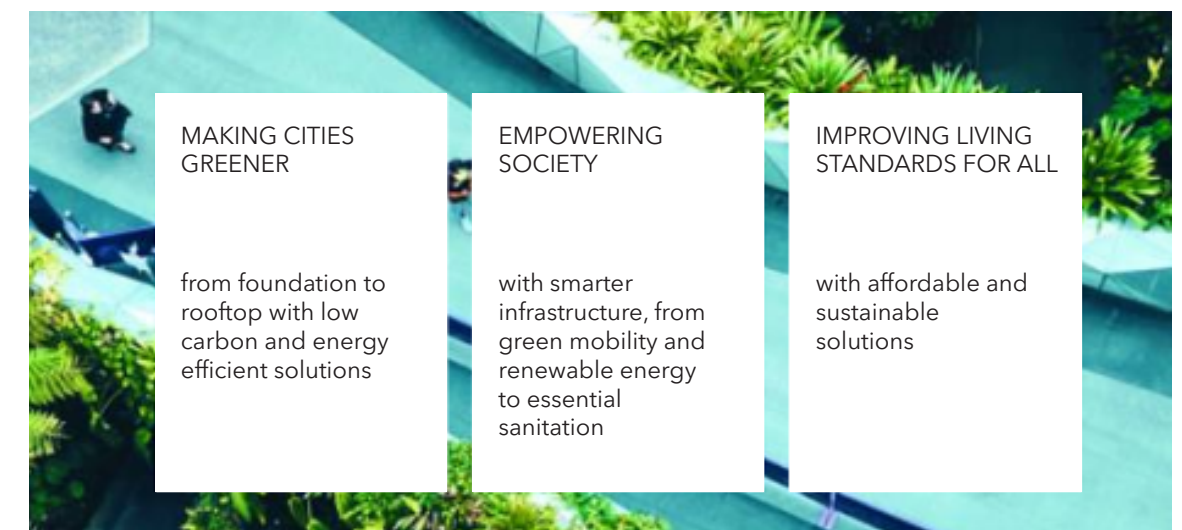
Tector



Building Progress

Our world is growing, with the global population expected to reach 10 billion by 2050. Our future is increasingly urban, with 70% of people expected to live in cities by then. As 1.6 billion people lack adequate housing and sanitation, we need to build livable cities that work for all.

At Holcim we are part of the solution.



"Building progress for people and the planet starts right here, right now with all of us! Let's put our expertise and passion to work to become the global leader in innovative and sustainable building solutions." *Jan Jenisch, CEO*



Lafarge Emirates Cement

Driven by the sole motive of satisfying and exceeding customer's expectation, Lafarge Emirates Cement (LEC) aims to reach a best in class performance through industrial excellence and to provide a full and innovative products range which is being valued and sought by our customers.



Cement:
1 integrated plant



Geocycle:
2 pre-processing plants



Capacity of
3 million tons



Established in 2005, Lafarge Emirates Cement is a fully owned Holcim entity. The plant in Fujairah is equipped with the latest technology and meets international environmental standards, with an annual production capacity of 3 million tons of cement, and a production line offering a wide and varied range of products.

LEC is fully committed to the high quality standards and the production process is designed to respond to the requirements of all kinds of customers to meet their project's needs. Cement is produced using carefully selected raw

materials and strict quality control throughout the production stage always ensures consistent final product.

FAST FACT: 3 million tons of cement production capacity annually.

LEC's vision is to make a significant contribution to the building materials and construction sector in the UAE and Oman, offering premium quality products, while being a leader in sustainable development.

Products and Services

LEC aims to become not only a supplier but also a reliable, long-term business partner creating new solutions and innovative products for our customers. Our products and services meet both local UAE and Oman standards and the group's highest quality standards.

Our practices continuous quality control on our cement plants: every shipment of cement is tested in the plant's quality labs.

Our Product Range



Classic: Ordinary Portland Cement

LEC Portland cement is a high quality, cost-effective basic building material used in virtually all forms of construction. This is a general purpose cement suitable for all uses where the special properties of other types of Portland Cement are not required.

Shield: Sulfate-Resisting Portland Cement

LEC Sulphate-Resisting Portland Cement is suitable where sulfates present in soil, groundwater, seawater, etc. are in concentrations that would damage concrete made with normal Portland cement. Sulfate resistance is achieved by limiting the level of Tricalcium Aluminate, the primary component that influences resistance to sulfate attack in concrete.

EcoPlanet: Sustainable Cement

Every day we have opportunities to reduce our carbon footprint—and help create a better world. We believe cement can help do that, too. Our sustainable cement offerings help reduce the CO2 intensity of our cements!

The lowest CO2 footprint cement for light concreting and plastering applications in the UAE.

Tector Range

Tector is a global construction solutions brand developed with you in mind by the largest building materials company in the world, Holcim, owners of the Lafarge brand.

Tector is a promise of quality, built on the latest construction expertise and formulas based on European Technology and shared across all Lafarge businesses around the world.

There are several brands under Tector, each with its own promise to you, our proud Lafarge customer.

TectorSpex



TectorPlast



TectorCeram Range



TectorFloor Range



To know more
about Lafarge
Emirates Cement



Welcome to Tector

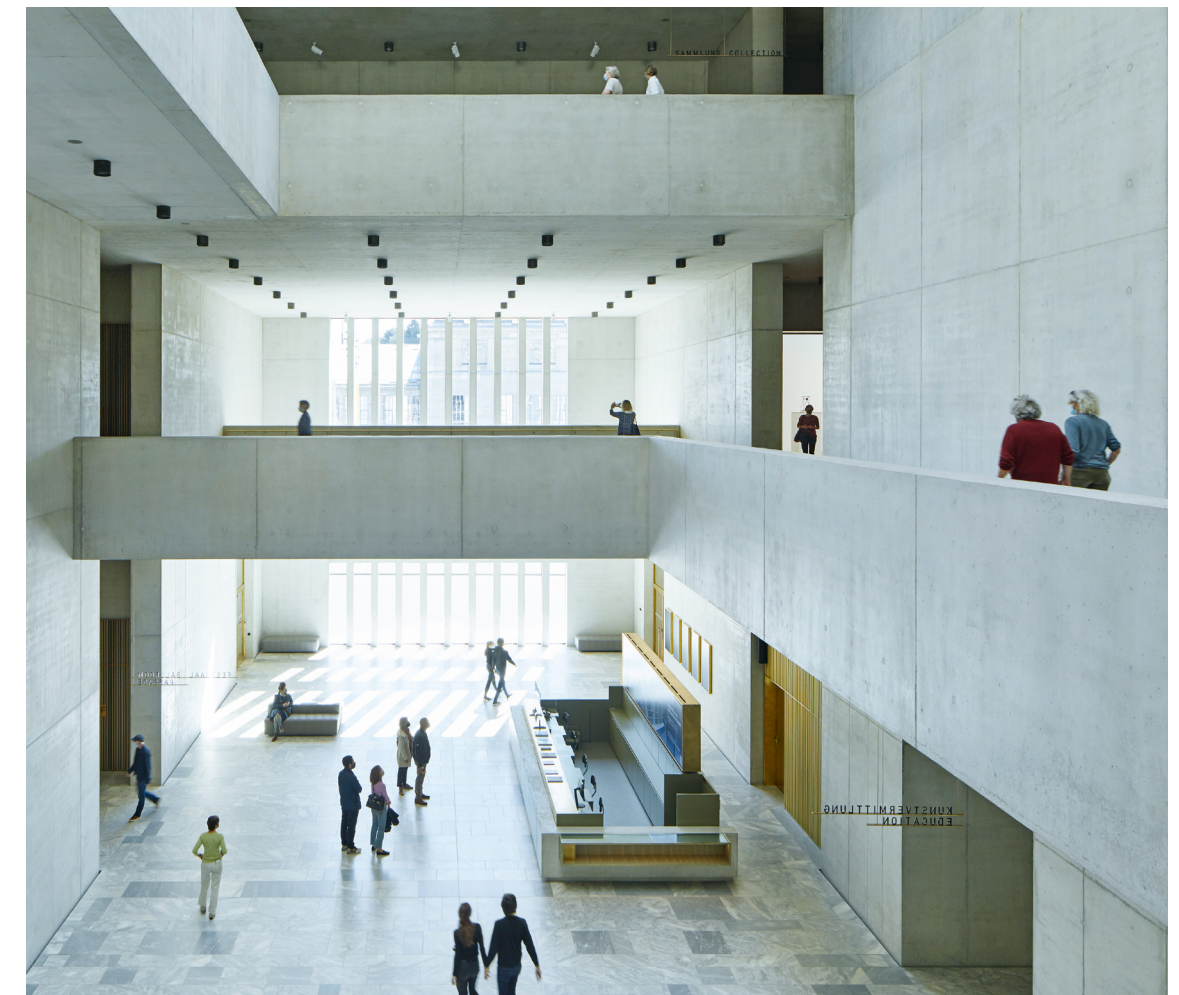
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There are several brands under Tector, each with its own promise to you, our proud Lafarge customer.



What Tector Does For You

1. Unbeatable quality guarantee from the world's largest construction materials business, Holcim, owners of Lafarge
2. Free technical assistance, product use training and support for all Lafarge customers
3. Peace of mind and the confidence of constructing with the finest blend of materials that money can buy at prices that provide excellent value for money



TectorCeram

GP Tile Adhesive 300

Description

TectorCeram GP Tile Adhesive is a dry premixed thin bed adhesive mortar for fixing the ceramic tiles on wall and floor in interiors under normal conditions.

Composition

Ordinary Portland cement, hydrated lime, processed mineral fillers / sand and special chemical additives

Features & Benefits

- Excellent adhesion and workability
- Good mechanical properties
- Suitable for fixing all types of ceramic tiles
- Long open time and working time
- More yield and coverage
- Suitable for tile sizes less than 1000cm²

Method of Application

Surface Preparation:

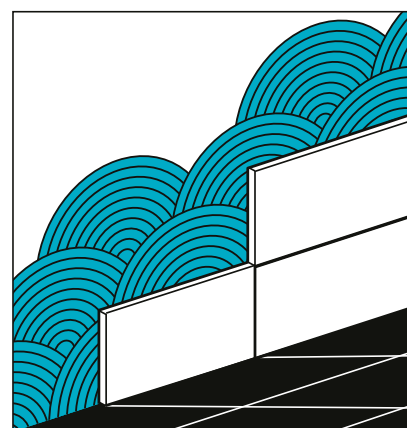
The base on which tiles are to be fixed should be well compacted, properly cured, free from air voids, dimensionally stable, sound plastered, concrete/screed base. Before applying tiles on such base, clean it to remove loose sand/aggregate particles, oil, grease, paint, salt and other contaminants, which may otherwise hamper the adhesiveness of the material. Substrate should be in saturated surface. Dry condition to prevent absorption of water from mortar.

Mixing:

For mixing of adhesive material use specified quantity of clean potable water and mix in a suitable round shaped vessel with electrical stirrer. Take water in the mixing vessel (always a little less than the actual required for the material as per the specified requirement), put the dry mix material in it. Mix slowly first and then vigorously to make a viscous mortar. Add the remaining quantity of the water and mix to make a homogeneous and workable mortar. Leave the mixed material to stand for about 5 - 10 minutes and then mix well again without adding any extra quantity of water.

Application:

Apply the adhesive compounds on the already prepared surface with the help of the smooth side of a serrated trowel. Comb the surface of the adhesive with gentle pressure using the notched trowel with 6X 6mm teeth. Fix the tiles immediately by pressing them firmly in the position with slight sliding and twisting action. For tiles with deep keys or studs on the back, apply adhesive to the back of the tiles to fill the keys or space between studs. The tile should be firmly tempered with wooden handle of trowel or pressed home into wet adhesive to ensure firm bedding. For good results do not spread wet mortar on more than 1 m² area at a time. The process of laying must continue keeping on the top surface of tiles in line and level. Tiles should not be fixed on dry and hard adhesive compounds. During the process of laying the tiles the bed of mortar should not have formed a film on it.



Precautions & Limitations

Application of product should be done according to the procedure mentioned in this product datasheet. Lafarge Emirates Cement will not be held responsible for any claim arising out of non-performance of the product due to incorrect application procedure or usage of product for non-recommended purpose. Please contact Tector technical team for more details.



Technical Information

Properties	Results
Physical State	Premixed granular powder
Binder	Ordinary Portland Cement
Color	Grey
Size of aggregate	0 – 0.4 mm
Density	Dry – 1.3kg / ltr, Wet – 1.73 kg / ltr
Water requirement	25%
Approximate / coverage	6.25 m ² per 25 kg bag at 3mm thickness
Open time, Working time	Approx. 25 minutes, > 60 minutes
Pull off strength	1.4 N / mm ² at 14 days
Compressive strength	16.0 N / mm ² at 28 days
Flexural strength	5.0 N / mm ² at 28 days
Packing	25 kg paper bag
Storage & Shelf life	6 months from the date of manufacturing, when stored under dry conditions
Applicable standards	BS 5262, 5492, 4551, DIN 1168 / 2, 18850 / 1, ASTM C 348, 349, C109/CM-01



Health & Safety Precautions

The product contains Portland cement, which after mixing with water becomes strongly alkaline and may cause skin irritation if exposed to such condition for a long time. Avoid inhalation of dust and in case of contact with eyes and skin, wash with plenty of clean water and take medical help if required. Work in well-ventilated condition and use protective kits such as mask, glove and spectacles. Keep the material out of the reach of children.

The above technical data are based on controlled laboratory conditions. However, there may be some variation in yield and coverage depending on the ambient weather and site conditions.



Wear gloves



Wear goggles and
respirator mask



Do not swallow,
do not inhale



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TectorCeram

Super Tile Adhesive 300 W

Description

TectorCeram Super Tile Adhesive is a polymer modified cement-based adhesive used for permanent fixing of tiles. It is ready to use with addition of water.

Features & Benefits

- Can be used in internal walls and floors
- Suitable for use in wet areas
- Suitable for tile sizes less than 1000cm²

Method of Application

Surface Preparation:

Substrate should be sound, clean and free from dirt, dust, laitance and all loosely adhering particles. Absorbent cement-based surfaces should be thoroughly saturated with water to achieve surface saturated dry condition.

Mixing:

Add 6.25 L of water per 25 kg bag, mix thoroughly with clean water for a minimum of 3 minutes. Leave material for at least 5 minutes to stand in container. Then remix for 15 seconds - the product is now ready for use. Do not mix more material that can be used within the open time.

Application:

Apply TectorCeram Super Tile Adhesive at 3 mm thickness directly to the prepared concrete substrate, using a notched trowel and spread the mortar evenly over the area to be tiled. Cover only an area that can be tiled within 15–30 minutes. 25 kg will cover approximately 5.5–8.0 m² at 3 mm thickness depending on surface.

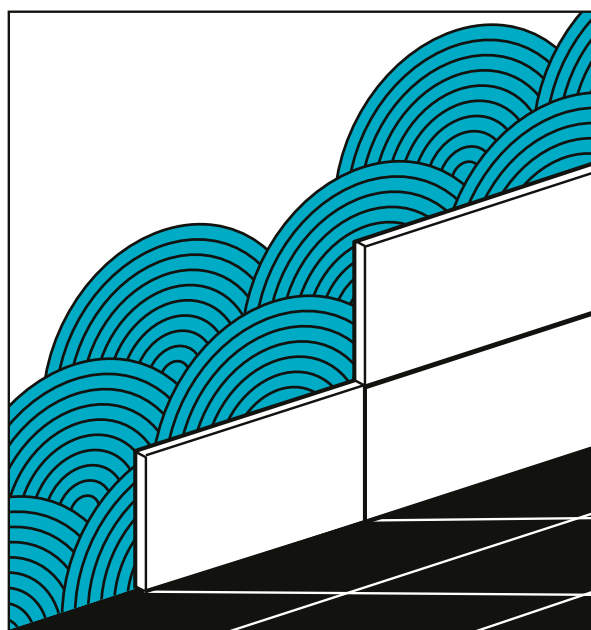
Conditions And Limitation

Substrate Temperature +5°C min. / +35°C max.

Ambient Temperature +5°C min. / +35°C max

Cement-based substrate age must be at least 28 days.

Do not exceed the recommended water dosage. Apply only to sound, prepared substrates. Do not exceed maximum layer thicknesses.



Test Data

Density	Fresh mortar density: Approx 1.80kg/liter
Pot Life	Approximately 40 minutes
Mechanical Strengths (@28days)	Compressive Strength: Approx 12.0 N/mm ²
	Pull-off Strength: Approx 1.7 N/mm ²

Protective Measures

TectorCeram Super Tile Adhesive is cement-based and will lead to dehydration and thereof irritation in case of contact with skin. So while mixing and applying the product, protect with safety goggles and protective gloves.

Storage / Shelf Life

12 months when stored in dry area in original unopened packing, between 5°C and 35°C. Protect from direct sunlight.

Packaging

25 Kg bag of powder in a paper bag with moisture barrier

Warning

TectorCeram Super Tile Adhesive should not be used directly on gypsum or gypsum board or under conditions of continuous immersion.

All instructions and data contained in this Technical Sheet are general information only and are based on our experience and performed tests. Under all circumstances relevant standards and general knowledge of construction/engineering must be implemented. In case of specific questions or requirements please contact our Technical Service.



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TectorCeram

Tile Grout

Description

TectorCeram Tile Grout White, is formulated from Portland cement, silica flour and other special proprietary ingredients. It provides superior hardness, strength and durability with a wide variety of tiles.

Product Uses

TectorCeram Tile Grout White may be used for grouting glazed wall tile, marble or granite. Use the Tile Grout for grouting floors and walls whenever grout joint widths are less than 1/8".



Features & Benefits

Appearance	: Powder
Composition	: Cement, mineral charges, hydrophobic agent, synthetic organic polymers and color pigments.
Color	: Grey, White.
Density	: 1.17 kg/Lit
Pot Life	: < 1hr at 20°C
Shelf Life	: 6 months
Mixing Ratio	: 6 – 6.5 L of water / 20 kg bag
	<ul style="list-style-type: none"> • High early strengths • Fast setting • Meets or exceeds ANSI A118.6 requirements • Mildew resistant • Non-shrinking • Low absorption • Easy clean-up

Directions for Use

Use in narrow grout joints 1/8" or less. Follow ANSI A108.10. Mix according to instructions on grout packaging, approximately 30-33% of water. Grout can be remixed during its pot life, of 40–45 mins, for improved workability. DO NOT ADD ANY ADDITIONAL WATER.

Tile Grout Consumption Formula

$$C = 0.18 \times E \times H \times [(L + W) / (L \times W)]$$

C = Consumption (kg/m²)

E = Joint Width (mm)

H = Tile Thickness (mm)

L = Tile Length (cm)

W = Tile Width (cm)

Application

Remove all spacers from the tile. Lightly dampen tile before grouting. Spread grout over the face of the tile using a rubber grout float. Work grout back and forth at a 45° angle to the face of the tile to ensure complete filling of joints. Remove excess grout using the edge of the rubber float moving diagonally across the face of the tile.

Curing

For grout mixed with water, damp cure for 3 days by wiping joints with a damp cloth or sponge several times a day or by covering joints with non-staining Kraft paper. Improper curing may result in weak joints.

Limitations

- Do not use grout in joints greater than 1/8" wide.
- Do not use in applications where high chemical and stain resistance is required.
- Do not apply in temperatures below 10°C or above 37°C.
- Do not install over control or expansion joints

Clean-up

Remove excess Dry Tile Grout from hands and tools with a sponge and clean water immediately after use. Removal of cured grout is very difficult.

Packaging: Dry Tile Grout is available in 20kg packaging.

Storage/shelf Life

Store in a clean, dry area not affected by freezing or hot temperatures. Store opened containers in a plastic bag to extend shelf life. Shelf life is 6 months from date of manufacturing.

Health & Safety Precautions

The product contains Portland cement, which after mixing with water becomes strongly alkaline and may cause skin irritation if exposed to such condition for a long time. Avoid inhalation of dust and in case of contact with eyes and skin, wash with plenty of clean water and take medical help if required. Work in well-ventilated condition and use protective kits such as mask, glove and spectacles. Keep the material out of the reach of children.

The above technical data are based on controlled laboratory conditions. However, there may be some variation in yield and coverage depending on the ambient weather and site conditions.



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TectorFloor

Floor Screed 453

Description

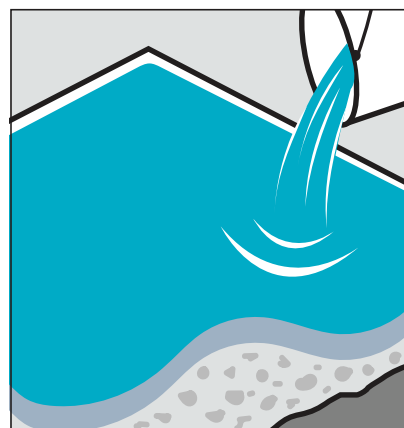
Tector Floor Screed is a Portland cement based screed for floors. It requires only the addition of water to produce an easily spreadable mortar. It can be applied in 20–60 mm thickness in single application.

Composition

Ordinary Portland cement, processed mineral aggregates and special additives for performance improvement.

Features & Benefits

- Screed for rough and irregular concrete base
- Requires only the addition of water before use
- Saves in time and labour
- Self compacting mortar
- Excellent workability
- Suitable for 20-60mm thickness



Method of Application

Surface Preparation:

The floor under screeding must be free from dust, loosely adhering material, plaster, loose cement, grease, oil or and other foreign material. Smooth concrete must be hacked to at least 70–80% of the total concrete surface. Prewetting of all type of surface must be done 5–6 hours before the application of floor screed. Remove the excess water and allow the surface to dry. Apply sand, cement, SBR, slurry as a bonding bridge.

Mixing:

For manual application one bag of 50 kg floor screed must be mixed with 6 liters of clean potable water. Mixing should be done with the electrical stirrer. Place most of the mixing water in the mixing container then slowly add the contents of the bag whilst mixing using an electric drill with spiral mixing paddle and 300–400 rpm speed. When the mix is free of lumps, add the remainder of the mixing water and mix again until a uniform mix is obtained. Hard and partially set mortar should never be used. Always use clean tools for mixing.

Application:

Pour the mixed mortar on to the previously primed surface within 20 minutes of the application of bonding coat and spread to a thickness of 20–60 mm at a time and level with notched trowel, pin screed or similar equipment. For application on large area the surface must be divided in equal panels of 4 X 4 mtr to avoid shrinkage cracks. Tector Floor Screed must not be applied greater than 60 mm thick at a time. Where more thickness is required it should be applied in more than one layers. The second layer should be applied after a minimum period of one day. In multi-layer application the surface of the base layer should be scratched with the help of notched trowel for perfect bonding between two layers. The screeded surface becomes ready for light foot traffic after 30–48 hours depending on ambient weather conditions. However, heavy traffic must be avoided for atleast one week from the time of laying the screed.

Curing:

Continuous curing for 7 days is recommended.

Precautions & Limitations

Protect the surface of freshly laid material from direct sunlight and wind. Air blowing across the surface of the freshly laid material should be prevented. It may cause cracking of the screed due to rapid drying. Application and performance of Tector Floor Screed may be affected by harsh weather conditions such as strong wind, sunshine, hot weather and rain. Hence all possible protective measures should be adopted during the application of Tector Floor Screed. Please contact tector technical team for further assistance.

Application of the product should be done according to the procedure mentioned in this data sheet.



Technical Information

Properties	Results
Physical state	Dry mix granular mortar
Binder	Ordinary Portland Cement
Colour	Light Grey
Size of Aggregate	0 – 2.0mm
Density	Dry – 1.55kg/ltr, wet – 2.0kg/ltr
Water requirement	Approx 12%
Approximate yield	540ltr per ton
Working time	> 60 Minutes
Curing	Min. 72 hrs by potable water (3–4 times a day)
Compressive strength	30N/mm ² at 28 days (25N/30N/40N available)
Flexural strength	3.0N/mm ² at 28 days
Final setting time	4 hours at 27°C and 55% RH
Packing	50kg paper bag
Storage & Shelf life	12 months from the date of manufacturing when stored under dry conditions
Applicable standards	BS 4551, DIN 1164, ASTM C 348, 349, C 109/CM-01



Health & Safety

TectorFloor Floor Screed has no specific health hazards. It is non toxic but contains Portland cement, which after mixing with water becomes strongly alkaline and may cause skin irritation if exposed to such condition for a long time. Avoid inhalation of dust and in case of contact with eyes and skin, wash with plenty of clean water and take medical help if required. Work in well ventilated condition and use protective kits such as mask, gloves and spectacles. Keep the material out of the reach of children.

The above technical data are based on controlled laboratory conditions. However, there may be some variation in yield and coverage depending on the ambient weather and site conditions.



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TectorSpex

Non Shrink Grout 710

Description

TectorSpex Non Shrink Grout is a premixed cementitious non-shrink grout which when mixed with water gives free flowing shrinkage compensated grout of excellent workability and performance. It contains special hydraulic setting binders, selected aggregates and expansion control additives. It is used for grouting of machinery and equipments.

Specification: Meets the requirements of ASTM-C-1107 & CRDC- 621-83.

Areas of Application

- Heavy machineries & equipments foundation.
- Repair of pre-cast concrete.
- Pre-fabricated unit joints and cable grouting.
- Floor repairs and topping.
- Boiler foundation & turbine generator bearing plates.
- Cavities, gaps, recesses and anchorage.
- Bridge bearing pad & structural columns in pre-cast crane rail construction grouting.



Features & Benefits

- Non shrink property of the grout provides maximum contact with bearing surface.
- Excellent bonding strength to concrete and steel.
- High flowability helps in grouting of larger base plates.
- No bleeding and segregation which controls the flow & strength development of the grout.
- Excellent for dynamic and static loading conditions.
- High early strength and durability characteristics for rapid result.
- Free of chlorides which prevents corrosion of foundation bolts & base plates.
- Easy to grout machine base plates up to 70 mm.

Method of Application

Pre Application Checklist:

- PAN mixer for mixing of grout,
- Storage vessel for storing & placement of the grout after mixing.
- Potable mixing water, sufficient manpower, mould release agent, strong form work of wood /metal.
- Calculate the grout quantity required as per the grouting volume and keep 10% extra quantity to take care of wastage and contingencies.

Surface Preparation:

The surface should be clean, free of dust or de molding agents, oil, paint etc. Clean the area to be grouted with water, 24 hours prior to grouting. The surface should be damp, but strictly free of standing water. The form work should be leak proof.

Application:

- Align the base plate using level bottles. Fix shuttering and grout pouring hopper. Seal the shuttering joints using high consistency grout (Fast setting) or sealant. Allow it to set for minimum 4-5 hours.
- Wet the inside area of PAN mixer with water before starting to mix.

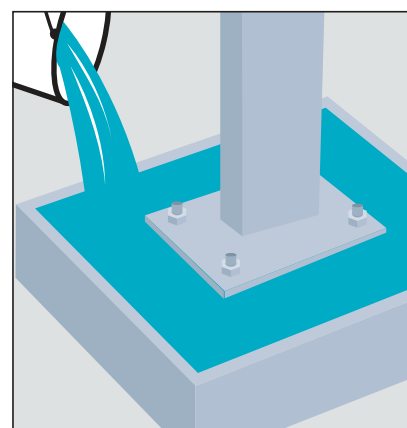
Mixing:

Place 70-80% of the premature clean water [depending on consistency required] into a clean container and gradually add the whole bag of Tector Spex Non Shrink Grout into it while continuously mixing. Add the remaining water until the desired consistency is obtained. Mix 2-3 minutes with a low speed drill [500rpm max]

Application:

After mixing, stir lightly with a spatula for a few seconds to release any entrapped air. The grout is then poured immediately into the prepared formwork. When carrying out baseplate grouting, ensure sufficient pressure head is maintained for uninterrupted mortar flow. For formwork repair, the prepared formwork must be firmly in place and kept watertight.

When placing grout over a large area, it is important to maintain a continuous flow throughout. Work sequence must be properly organized to ensure



For sections thicker than 100mm or for grouting large areas, it is necessary to mix Tector Spex Non Shrink Grout with graded 10mm silt free aggregates to minimize temperature rise generated during curing stage. The quantity of aggregates should not exceed 1 part aggregates with 1 part product.

Other precautions such as the use of chilled water, insulation of form work or base plate may be required.

Precautions & Limitations

- For large pours, the grouting operation shall be done in steps with a high head or by a grouting pump to avoid air entrapment.
- Do not add extra water in any circumstances.
- Ensure that the shuttering is leak proof.
- Pour the mix only from one end under the gravity of 6 to 8 inches head.
- For greater depth (more than 75 mm), fill clean, pre-washed, crushed 10 mm down aggregates (around 40% by weight of powder).

Application of the product should be done according to the procedure mentioned in this leaflet. Lafarge Emirates Cement will not be held responsible for any claim arising out of non-performance of the product due to incorrect application procedure or usage of product for non-recommended purpose. Please contact LEC technical team for more details on application of the product for purpose other than mentioned above or on the surfaces with special construction additives.



Technical Information

Properties	Specification	Results
Density, Kg/m3		2200 ± 50
Initial Setting Time, Minutes > 300		
Final Setting Time, Minutes		< 600
Compressive Strength,	ASTM C 109: 1999 N/mm ²	
1 Day		24
7 days		47
28 days		68
Flexural Strength, N/ mm ² , 28 days	ASTM C 580	9-10
Tensile Strength, N/ mm ² , 28 days	ASTMC307	5-5.5
Pull Off Adhesion Strength, N/ mm ²	BS 1881, Part 207	2 ± 0.2
Layer Thickness	min 10mm, max 70mm	
Restrained Condition		+ 0.15 to 0.4



Packing: 25 kg

Coverage: Yield 13.10 ltr per 25 kg bag.

Shelf Life & Storage: Shelf life is 12 months from the date of manufacturing. Store at cool & dry place, away from moisture.

Health & Safety Precautions

- As with all chemical products, caution should always be exercised.
- Protective clothing's such as gloves and goggles should be worn (see packaging for specific instructions).
- Treat any contact to the skin or eyes with fresh water immediately.
- Should any of the products be accidentally swallowed, do not induce vomiting but call for medical assistance immediately.



Wear gloves



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TectorSpex

Concrete Repair Mortar 703

Description

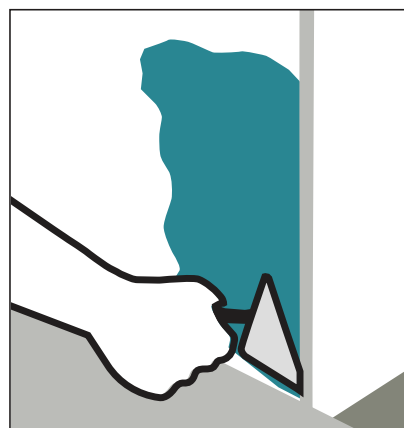
TectorSpex Concrete Repair Mortar is a specially formulated, non-shrink, fiber-reinforced high strength cementitious mortar composed of high quality cement, properly selected & graded aggregates, fibers & additives. TectorSpex Concrete Repair Mortar is suitable for a wide range of concrete and masonry repair work especially in vertical and overhead applications because it is shrinkage compensating, high strength reinforced mortar with excellent bonding properties.

Areas of Application

- Repair of damaged, deboned or weak concrete.
- Repair of vertical and overhead surfaces.
- Heavy concrete structural repair works.
- Replacement of spalled, chipped or cracked concrete.
- The mortar is suitable where superior chloride and carbon dioxide resistance is required.

Features & Benefits

- Speciality - Formulated for Middle East hot climatic conditions.
- Strength - special reinforced strength due to the presence of Fibre.
- Thickness - high thickness built-up is possible.
- Shrinkage - shrinkage compensating hence reduces cracking.
- Permeability - Low permeability and weatherproof increases durability.
- Bonding - excellent bonding strength to old concrete.
- Resistant - excellent resistance to chloride and carbon dioxide permeability.
- User Friendly - pre-packed, easy to use, simple addition of water at the site.
- Thixotropic and can be used in over-head applications



Method of Application

The heavy load bearing capacity and high mechanical strength of TectorSpex 703 makes it ideal for structural repair.

Surface Preparation

The surface to be prepared must be sound & clean. It should be free of dust, loose mortars, oil, grease & coatings.

Application

Bedding

- The voids diameter should be at least 30mm bigger than the rod; the depth of the voids should be 10 to 15 times the diameter of the rod to be bedded. A few hours before bedding, fill the voids with water. Make sure that there is no residual water in the voids.
- Apply TectorSpex Concrete Repair Mortar as in the form of sound mortar by adding water.

Blocking

- Make a solid formwork and ensure that the formwork is leak proof to avoid bleeding and leakage.
- Thoroughly wet the area and make sure that no residual water remains.
- Pour the TectorSpex Concrete Repair Mortar by a suitable method such as hand or pump.
- Care should be given to avoid air pockets while filling.
- For mortar and slurry the ratio is 3.5 litres per 25 kg bag.

Repairs on Fresh Concrete Areas

- The repair areas must be clean and primed with suitable bonding agent and allow 20 minutes for subsequent application of TectorSpex Concrete RM.
- Tector RM can be applied at thickness in excess of 50 mm at a time on vertical surfaces and upto 40 mm thickness when applied in overhead work.

Priming of Reinforcing Steel

- Immediately after the completion of cleaning apply the suitable primer as a protective coat for steel. The priming system to be used on the concrete

Repairs on Old Concrete Areas

- The decayed or damaged area of the concrete should be saw cut or cut neatly keeping the side of the area as square as possible. Feather edging must be avoided. test the surface for soundness; remove all loose debris, dust and water.

Precautions & Limitations

- Temperature range: 5°C to 35°C. Outside this range, it is recommended to use hot mixing water (below 5°C) or cold water (above 50°C) depending on the circumstances, as well as increased care in protecting the surface (covering with insulating materials).
- Solid and resistance supports to be used. Support is to be saturated with water a few hours prior to installation. All residual water to be removed prior installation.
- Do not mix with other hydraulic binders. Under no circumstances should any additives be used.



Technical Properties:

Properties	Specification	Results
Appearance		Granular grey powder
Bulk density, Kg/ltr		1.62
Grain size, mm		Upto 1.6
Special ingredients		Fibers & binders
Compressive strength, 28 days, N/mm ²	ASTM C 579	70
Flexural strength, 28 days, N/mm ²	ASTM C 580	12
Tensile strength, 28 days, N/mm ²	ASTM C 307	5
Water absorption, %		< 1.7

Type	Repair Mortar (kg)	Gravel	Water (litres)	Volume in place
Mortar	25	0	4.50	15.81
Pure slurry	25	0	4.50	16.51
Micro-concrete	25	5	3.21	20.10



Packaging: 25 kg

Shelf Life & Storage: Shelf life is 12 months from the date of manufacturing in unopened condition. Store in a cool & dry place.

Health & Safety:

- As with all chemical products, caution should always be exercised. Protective clothing, such as gloves and goggles, should be worn.
- Treat any contact to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting but seek for medical assistance immediately.
- Ensure the pack is available for the medical attendant to examine any relevant instructions and contents details.
- Reseal all containers after use and ensure product is stored as instructed.

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Do not swallow,
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TectorPlast

Block Laying Mortar GP 106

Description

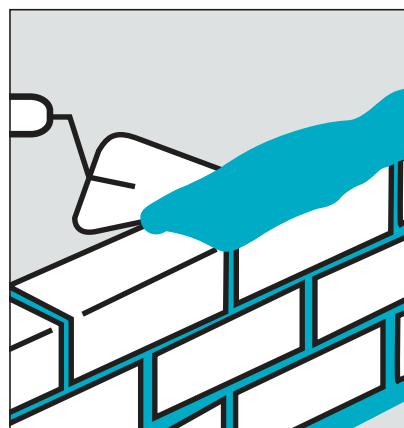
TectorPlast Block Laying Mortar GP is a pre-mixed mortar for laying / fixing of concrete block, clay brick and other similar masonry units. It has an excellent traveling and water retention properties.

Composition

Ordinary Portland cement, hydrated lime, crushed natural mineral aggregates and special additives for performance improvement.

Features & Benefits

- Excellent workability
- High moisture retention
- Screw mixer — for continuous mixing
- Mixed by hand or electrical mixer
- Uniform consistency
- Strength compatible to concrete block masonry
- Low shrinkage mortar



Method of Application

Surface Preparation:

Clean the concrete or clay masonry using a brush to remove the dust and loose particles. Pre wet the block to compensate the suction by applying clean potable water. Free water on the surface should be allowed to disperse before placing the mixed mortar.

Mixing:

TectorPlast Block Laying Mortar should be mixed with potable water in a clean plastic bucket, or a clean non corrosive, uncontaminated metal tub. To ensure homogeneous and uniform mixing, use of electric agitator is recommended. To a 50 kg bag of dry mortar add 7 liters of potable water for mixing. Water should always be placed in to the mixing vessel before the addition of TectorPlast Block Laying Mortar. Mix the mortar homogeneously with the help of electrical tool. Allow the mixed mortar to stand for 5 minutes and mix again before the start of application. No further water should be added to the mix. Do not use hard and partially set mortar.

Application:

Apply TectorPlast Block Laying Mortar to masonry blocks or lay blocks on top of the mortar before it starts forming the skin. Place masonry blocks into mortar to form uniform joints of approximate 10 mm. fill the head joints with mortar properly. Tool all the joints when mortar has set to thumb press hard.

Curing:

Applied mortar must to be cured by keeping moist for a minimum period of 3 days.

Precautions & Limitations

Masonry mortar should always be applied as per the method give in this data sheet. Lafarge Emirates Cement should not be held responsible for any claim arising out of non-performance of the product due to incorrect application procedure or usage of product for nonrecommended purpose. Please contact LEC technical team for more details on application of TectorPlast Block Laying Mortar for purpose other than mentioned above.



Technical Information

Properties	Results
Physical stat	Dry mix granular mortar
Binder	Ordinary Portland Cement
Colour	Light Grey
Density	Dry – 1.6Kg/ltr,wet – 1.9 Kg/Ltr
Size of Aggregate	0-2.0mm
Water requirement	Approx 14%
Approximate yield	560ltr per ton
Compressive strength	2 10N/mm2 at 28 days
Working time	> 60 Minutes
Flexural strength	2.0N/mm 2 at 28 days
Storage & Shelf life	12 months from the date of manufacturing when stored dry condition
Curing	Min. 48 hrs by potable water (3-4 times a day)
Applicable standards	BS 5262, 5492, 4551, DIN 1168 / 2, 18850 / 1, ASTM C 348. 349. C 109/CM -01



Health & Safety Precautions

TectorPlast Block Laying Mortar has no specific Health hazards. It is nontoxic but contains Portland cement, which after mixing with water becomes strongly alkaline and may cause skin irritation if exposed to such condition for a long time. Avoid inhalation of dust and in case of contact with eyes and skin, wash with plenty of clean water and take medical help if required. Work in well ventilated condition and use protective kits such as mask, gloves and spectacles. Keep the material out of the reach of children.

The above technical data are based on controlled laboratory conditions. However, there may be some variation in yield and coverage depending on the ambient weather and site conditions.



Wear gloves



Wear goggles and respirator mask



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TectorPlast

Aerated Thin Block Laying Mortar 136

Description

TectorPlast Aerated Thin Block Laying Mortar is a cementitious thin layer masonry mortar. Suitable for internal and external applications, thin layer mortar for joining AAC blocks, pre fabricated walls and is suitable for joint thickness of less than 1mm.

It can be applied with a suitable serrated trowel to achieve a uniform thickness.

Composition

Ordinary Portland cement, processed natural mineral aggregate and special chemical adhesives.

Features & Benefits

- Excellent workability
- High Adhesive properties
- Optimum mechanical properties
- High water retention
- Shrinkage resistant
- Mixed by hand or electrical mixer



Method of Application

Surface Preparation:

The light weight blocks should be cleaned using a brush to remove any dust or loose particles. The blocks should be pre dampened prior to the application of the block mortar, to prevent moisture loss from the adhesive. Allow the free water to be removed from the surface of the blocks before the application of TectorPlast Thin Block Laying Mortar. Free water on the surface should be allowed to disperse before applying TectorPlast Thin Block Laying Mortar.

Mixing:

TectorPlast Thin Block Laying Mortar is supplied in 40 kg bags and has to be mixed with potable water in a clean plastic bucket, or a clean non corrosive metal tub. Add 8 litres of potable water to 40 kg bag. Water should always be placed to the mixing vessel before the addition of TectorPlast Thin Block Laying Mortar. Mix the material homogenously with the help of electrical stirrer. Allow the mixed material to stand for 5 minutes and mix again before applying, without adding any extra quantity of water. Hard and set mortar should not be re-mixed and used.

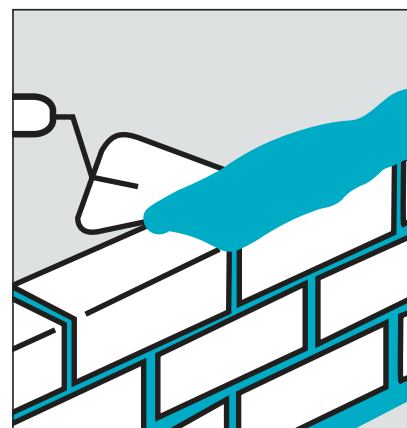
Application:

Fix the first course of AAC blocks using thick bed of normal cementitious mortar (1:4 cement, sand mortar). Spread the thin bed adhesive mortar TectorPlast Thin Block Laying Mortar on the top and side of the blocks to a uniform thickness of minimum 3mm using special toothed trowel. Push AAC block into mortar to form uniform vertical joints. Remove the excess adhesive mortar before it dries. Do not lay more than 8 layers of AAC blocks in a day at one stretch.

In order to avoid horizontal cracks along the wall, leave a space about 2 cm between the blocks and bottom on concrete element. The gap should be filled with suitable foam or compressive material.

Curing:

The applied TectorPlast Thin Block Laying Mortar has to be cured 3 – 4 times a day for at least 2 days by spraying a mist of clean water on the mortar joints.



Precautions & Limitations

Masonry mortar should always be applied as per the method give in this data sheet. Lafarge Emirates Cement should not be held responsible for any claim arising out of non-performance of the product due to incorrect application procedure or usage of product for non-recommended purpose. Please contact Tector technical team for more details on application of TectorPlast Aerated Thin Block Laying Mortar for purpose other than mentioned above.



Technical Information

Properties	Results
Physical state	Premix granular mortar
Binder	Ordinary Portland Cement
Colour	Light Grey
Size of Aggregate	0 – 0.8mm
Density	Dry – 1.3kg/ltr, wet – 1.8kg/ltr
Water requirement	20%
Approximate yield	618ltr per ton
Working time	> 60 Minutes
Curing	Min. 48 hrs by potable water
Compressive strength	10N/mm ² at 28 days
Flexural strength	2.0N/mm ² at 28 days
Packing	40kg paper bag
Storage & Shelf life	12 months from the date of manufacturing when stored under dry conditions
Applicable standards	BS 4551, DIN 1168/2, ASTM.C.348 – 9/97, DIN 1053-1



Health & Safety Precautions

The product contains Portland cement, which after mixing with after becomes strongly alkaline and may cause skin irritation if exposed to such conditions for a long time. Avoid inhalation of dust and in case of contact with eyes and skin, wash with plenty of clean water and take medical help if required. Work in well - ventilated condition and use protective kits such as masks, gloves and spectacles. Keep the material out of reach of children.

The above technical data are based on controlled laboratory conditions. However, there may be some variation in yield and coverage depending on the ambient weather and site conditions.



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TectorSpex

Fairing Coat 702

Description

TectorSpex Fairing Coat is a Polymer modified cementitious fairing mortar composed of high resistance cements, fume fillers and special additives. It is designed to give thin layers to produce a fair faced appearance, to concrete or masonry surfaces. When mixed with water, the product becomes high consistent, workable mortar that could be applied both horizontally and vertically.

TectorSpex Fairing Coat produces mortar that could be applied directly to fill in pores, blowholes and blemishes over a concrete surface, for thickness 3.0 mm. It has excellent thermal compatibility with concrete and compatible with all range of concrete repair products of LEC.

Uses:

TectorSpex Fairing Coat is designed for applications on concrete or masonry surfaces:

- Thin coat over precast concrete that will receive protective coatings
- As a general re-profiling layer over large areas of concrete surfaces.

- For filling pinholes or porous surfaces prior to over coating.
- As a minor repair product for defected concrete elements.
- For cosmetic repair fairing coat after a major concrete repair.
- Re-coatable and receives other cement products.



Advantages:

- Excellent bond to all concrete supports.
- Single compound requires only on site addition of water.
- Smooth, easily producing fair faced finish.
- After hardening, it creates an impermeable layer, resistant against atmospheric gas.
- Resistant against salts, chloride.
- Shrinkage compensated with no cracking
- Highly polymer modified. Curing will not be necessary.
- To produce a smooth fair faced surfaces prior to applying decorative coating.
- Very smooth finish which will create a suitable substrate for decorative purposes.
- Applicable in low thicknesses.
- For repairing thin hairline cracks

Instructions for Use:

Surface Preparation:

Preparation of cementitious surfaces for touch up should ensure the removal of all grease, contaminants, oil, curing compound, and loose material. For old concrete profiling, or for filling honeycombed areas, Use a steel brush to remove contaminants, laitance and weak cement particles.

The cleaned areas should be blown clean with oil-free compressed air before continuing. Soak the substrate with water, and allow excess water to evaporate. Application of repair mortars over dry concrete surfaces without saturation with clean water "SSD" will result in failure of product and defect in repair.

Mixing:

To prepare the mortar, pour 6.5 to 7.0 liter of clean water into container and add slowly TectorSpex Fairing Coat powder bag content (20 Kg). Mix using spiral paddle fitted to slow speed heavy duty mixer for few minutes till a homogeneous lump free consistency mix is achieved.

Always add powder to water and not water to powder. Avoid adding additional water after the mixture is homogenous and ready for use. Water addition may vary slightly according to both the ambient temperature and the desired consistency of the mix, but it should not exceed 7.0 litres. If mixing small quantities by hand, TectorSpex Fairing Coat should be volume-batched. Add 3 volumes of the TectorSpex Fairing Coat powder to one volume of potable water. This should be mixed vigorously until fully homogeneous

Application:

Apply TectorSpex Fairing Coat manually with a trowel or spatula to the saturated surface of concrete "SSD". The applicable layer thickness of the product is 3.0 mm and can be applied in more than one layer. Leave the surface rough if the application of following layer is needed

When smoothing the final coat, ensure to use very clean trowel or spatula to avoid scratching in the fairing coat. Do not spray water on semi dry surface to facilitate the smoothing of the surface. Damp sponges or plastic floats may be used to achieve a desired surface texture, but care should again be



Standards:

TectorSpex Fairing Coat conforms to: • ASTM 109 • ASTM C 348, ASTM C 1583

Technical Properties:

Appearance	:	Grey or White Powder
Density	:	1.35 – 1.40 Kg/Lt. at 20°C
Workability time	:	40 minutes at 20°C
Yield	:	13.0 liter / 20 Kg bag
Adhesion to concrete	:	> 1.5 N / mm ²
Compressive Strength	:	15 N / mm ²
Coefficient of Thermal	:	7 to 10 x 10 ⁻⁶ per °C
Application Thickness	:	3.0 mm
Flexural Strength	:	6.0 N / mm ² at 28 days



Packaging: TectorSpex Fairing Coat is packed in bags of 20Kg.

Shelf Life: TectorSpex Fairing Coat can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

Cleaning: Clean tools with water prior to product hardening.

Coverage: TectorSpex Fairing Coat achieves coverage of 1.4 Kg/ square meters for 1mm thickness.

Storage: The product must be stored in dry and sheltered place and into the original well closed bag

Recommendations:

- Protect the surface from rapid evaporation of water.
- The product should not be used when the temperature is below 5°C. Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation.
- The product should not be exposed to moving water during application or prior to initial set
- For temperatures above 40°C, the following guidelines are adopted as good working practice:
 - Store unmixed materials in a covered store to avoid exposure to direct sunlight.
 - Keep equipment cool, and arrange shade protection for the working area.
 - Try to avoid application during the hottest times of the day, and in direct sunlight.

Health and Safety:

TectorSpex Fairing Coat is a cement-based product. Avoid contact with skin or eyes. Provide adequate ventilation in working place to avoid inhalation of dust.



Wear gloves



Wear goggles and respirator mask



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