



Chem Coats (Pvt) Ltd.

ChemRep GT

Polymer modified, structure repair mortar

DESCRIPTION

ChemRep GT is a pre-mixed ready to use single-component polymer modified, cementitious repair mortar. The material is based on blended cements, graded siliceous aggregate, proprietary chemical additives, fillers and anti-desiccants.

USES

ChemRep GT is particularly suitable for use in hot climatic conditions for repairs to concrete and masonry. The mortar has been formulated for patching in vertical and overhead applications without formwork as well as for large area rendering.

BENEFITS

- Can be used in applications without formwork.
- Ready to use. (Pre - blended).
- Chloride-free.
- Non-shrink.
- Formulated for use in hot climatic conditions.
- Low permeability resists carbonation and chloride attack.
- High build, does not require multiple applications.

SURFACE PREPARATION

Square cut all edges to be repaired to a minimum of 10 mm deep. If the rebar is to be exposed, remove concrete to a minimum of 25 mm behind the rebar. Never feather edge the product. Remove all dust and unsound debris contaminants and corrosion deposits. In areas that do not require demolition and where the concrete is in good sound condition but additional cover is required, roughen the surface by scabbling or grit blasting the surface to remove laitance.

BONDING / PRIMING

Substrate priming: All areas to be treated should be thoroughly saturated with clean water. Remove excess water from the surface prior to applying one coat of ChemLatex bonding liquid at the rate of 3 to 4 m²/liter. Firmly brush the ChemLatex into the surface with a hard-bristle brush ensuring that the primer bonds well to the substrate. ChemRep GT can be applied to the ChemLatex as soon as it becomes tacky.

COVERAGE

25 kg of ChemRep GT powder mixed with 5 liters of water yields approximately 16 liters. One 25 kg bag ChemRep GT covers 1.60 m² @ 10 mm thick.

MIXING

For single-bag mixing, a heavy-duty drill fitted with a spiral paddle is suitable. Mix product at slow speed (400 - 500 r/min) add 4 - 5 liters of water to a suitable container and while stirring slowly add the ChemRep GT to the water and mix for 5 minutes until the mix is homogeneous and lump free. Do not exceed the stipulated amount of 5 liters of mixing water. Never mix part-bag batches.

APPLICATION

ChemRep GT is applied by hand or trowel to the primed substrate by packing and tamping the product into place using a trowel and gloved hand. Care must be taken to ensure that the Chemcoat GT is properly compacted against and around the exposed treated rebar. Chemcoat GT can be applied up to 50 mm thick on large vertical sections and 100 mm thick on smaller pockets. On overhead application the Chemcoat GT should not exceed 20 mm thick per application. However multiple layers can follow in rapid succession. Chemcoat GT should not be applied thicker than 100 mm per application. If the profile dictates that the mortar must be thicker than 100 mm, then multiple layers are to be applied by hand or trowel.



PHYSICAL PROPERTIES	
Compressive strengths – Mpa ASTM C109	
24 hours	14
28 days	35
Flexural strength– Mpa	
28 days	6
Tensile strength– Mpa	
28 days	2
Coefficient of Thermal expansion	9 to 12 x 10 ⁻⁶ /° C
Setting time	2 - 4 hours
Wet Density	1875 kg / m ³ @ 0.20 water: grout ratio
Chemical Resistance	Retards acid gas, chloride ions, oxygen & water

CLEANING

For ChemRep GT clean tools with water before setting. Hardened material can only be removed by mechanical means.

PROTECTION ON COMPLETION

Like all cement based materials ChemRep GT requires curing. As soon as the surface will not be marred, apply ChemLatex, by brush or spray, at the rate of 6 - 9 m² /liter.

PACKAGING

ChemRep GT is supplied in 25 kg polythene lined paper bags.

HANDLING & STORAGE

These products have a shelf life of 12 months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened.

HEALTH & SAFETY

ChemRep GT is alkaline and should not be allowed contact with skin and eyes. Avoid inhalation of dust during mixing by wearing dust masks. The use of gloves, eye protection and dust masks is advised. Immediately wash with water in the event of contact with skin. Splashes into eyes should also be washed immediately with plenty of clean water and medical advice sought thereafter. If swallowed, seek medical attention immediately - do not induce vomiting.



Chem Coats (Pvt) Ltd.

IMPORTANT NOTE

The information given in this data sheet is based on current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no controls over methods of applications, site conditions etc. In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local Chem Coats representative.

RANGE OF PRODUCTS

WATERPROOFING SYSTEMS
INDUSTRIAL FLOOR SURFACES
PROTECTIVE COATINGS

PREPACKED REPAIR MORTARS
CEMENTITIOUS & EPOXY GROUTS
CONCRETE ADMIXTURES

SEALANTS
CRACK INJECTION
CONCRETE ADHESIVE