



OVERVIEW

CONCREP GP ADV is a single-component polymer; cementitious medium-weight repair mortar. When mixed with a specified amount of water, a gray trowel-able mortar results, it is ideal for high-build applications on inverted or vertical surfaces. **CONCREP GP ADV** can be applied up to 50mm thick in one pass without formwork. Concrete repair mortar is specially formulated with fibre reinforced to produce shrinkage free mortar giving a smooth finish with excellent adhesion and very good water-resistant properties.

PROPERTIES

- Premixed powder, which requires only the on-site addition of water.
- High bond strength to prepare surfaces.
- Durable low permeability and weatherproof.
- Nonslumping Resistance to carbonation and attack by chlorides.

Appropriation

- Repair of damaged, weak or de-bonded concrete
- Repair of honeycombed concrete & Crack filler for concrete
- Patchwork repair on horizontal, vertical, and overhead surfaces
- Replacement of concrete suffering from an attack of chlorides or sulfates
- Replacement of concrete spalled or chipped

MIXING

Hand or mechanical mixing can mix **CONCREP GP ADV**. For hand mixing, quantities not greater than 10 kg may be mixed at one time. Slowly add the **CONCREP GP ADV** powder to clean gauged water, working well to produce a smooth mortar. The consistency of the mix can be adjusted by the addition of more powder or water necessary.

Curing :

CONCREP GP ADV should be cured in accordance with good concrete practice by applying of a suitable curing membrane or by covering the work with properly secured plastic sheeting. Protection against rapid drying from wind, sun, or excessive heat is necessary.

Product Management:

PREPARATION OF SURFACE

The surface of the concrete to be repaired should be sound and uncontaminated. The decayed or damaged area should be saw cut, keeping the sides of the area as square as possible. Loose materials must be removed carefully using suitable means such as sharp tools and chipping hammers. If the reinforcement is corroded make sure that the back of the steel is completely exposed. Then clean the steel to bright metal condition.

Priming

Reinforcement steel – must be fully exposed and thoroughly cleaned around the whole circumference during preparation. Grit blasting is also a preferred method. The steel should then be coated with GRIP BUILD ZR Zinc-rich epoxy primer. Concrete - If the concrete damage is severe and is due to a chloride attack, before applying the **CONCREP GP ADV** a bonding coat with the epoxy bond is advisable. For **CONCREP GP ADV** to achieve an optimum bond in the fresh and cured states, it should be applied when the bonding agent is still tacky. For normal priming on concrete surfaces.

Placing and Finishing :

Whilst the primer is still tacky, apply the mortar mix and compact well. The application can be by a trowel or a rubber-gloved hand to force the material in place. **CONCREP GP ADV** can be applied at a thickness of 40mm at one pass on vertical and overhead surfaces. High-build applications can be achieved by using form work. While applying multi-layers, the previous layer should be crosshatched and allowed to be set before applying the next coat.

GRIPMIX provides an extensive range of products and services for most concrete and finishing needs. Please contact the GRIPMIX for Building Construction Materials Trading Co. LLC-Dubai for further information, samples, demonstrations and instructor services. The information presented in this leaflet is based upon laboratory research, as well as comprehensive field work and application. All products are sold subject to standard conditions of sale which are available on request. This information is based on GRIPMIX's current state of knowledge and is intended to provide general information on GRIPMIX's products and their methods of use. The potential user is recommended to determine the suitability of GRIPMIX's suggestions and products before adopting them on a commercial scale.



Cleaning :

Clean tools with water immediately after use.

Packing & Storage

CONCREP GP ADV is available in 25 kg bags. Up to 12 months in unopened containers, Keep out of direct sunlight and moisture.

Health & Safety :

CONCREP GP ADV contains no hazardous substances; However, it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes, wash thoroughly and immediately with warm water. If swallowed seek medical attention. For more details, please refer to the MSDS released on each GRIPMIX product.

TECHNICAL DATA

Product	Non-slump wall tile adhesive.
Standard Confirms to	ASTM C 387:77A Din 1048 & DIN 1045 Class B
Color and Appearance	Grey Powder
Density	1.65
Compressive Strength @ 28Days	43.9N/mm ²
Flexural Strength @28Days	8.9N/mm ²
Tensile Strength @ 28Days	3.71N/mm ²
Bond Strength @28Days	< 26N/mm ²
Water Absorption	0.95%
Pot Life @ 25oC	30min
Recommended Application thickness	10-50mm/ layer