

ANCHORFIX AG



KB BuildChem AnchorFix AG is a shrinkage-compensated (non-shrink), ready-to-use dry powder grout. When mixed with clean water, it produces a free-flowing, non-segregating grout capable of filling complex and structured spaces uniformly. The formulation consists of cements, graded aggregate fillers, and specialty additives, which:

- Impart controlled expansion in the plastic state.
- Reduce water demand while maintaining high workability.
- Ensure positive contact with machine base plates.
- Deliver high early flexural and compressive strength.
- Provide long-term durability and reliable performance in structural applications.

APPLICATION

- **Non-Shrink & Shrinkage Compensated** : Ensures positive contact with base plates and reduces void formation.
- **Free-Flowing & Non-Segregating** : Fills complex and structured spaces uniformly without segregation.
- **High Early Strength** : Achieves rapid flexural and compressive strength, enabling faster commissioning.
- **Reduced Water Demand** : Maintains workability while lowering water-cement ratio, improving durability.
- **Durable & Long-Lasting** : Provides long-term performance under heavy load conditions.
- **Controlled Expansion** : Compensates for shrinkage in the plastic state, ensuring dimensional stability.
- **Versatile Application** : Suitable for heavy machinery, turbines, steel columns, base plates, bolts, and bearing pads.
- **Positive Load Transfer** : Ensures complete load-bearing capacity for structural elements.

MERITS

- **Controlled Expansion** : Ensures positive surface contact and low water permeability.
- **Early Strength Development** : Achieves rapid strength gain without the use of chloride, facilitating early reinstatement.
- **Chloride & Iron Free** : Prevents rusting or staining on exposed edges.
- **Pre-Mixed Formula** : Only water addition required, eliminating on-site mixing errors and ensuring consistency.
- **Free-Flowing & Self-Leveling** : Easy to pour or pump, suitable for restricted or complex locations.
- **Non-Toxic** : Safe to handle when used with standard precautions.

DIRECTION OF USE



Surface Preparation :

- **Remove Unsound Concrete**: Chip away any loose or weak concrete and laitance to create a sound substrate.
- **Surface Roughening**: For maximum bond, roughen or abrade the surface using mechanical methods such as needle gun, grit blasting, or grinding.
- **Cleanliness**: Ensure all surfaces are free from oil, grease, dust, and contaminants—especially the underside of base plates, bolts, pipes, or other contacting elements.
- **Pre-Wetting**: Saturate concrete surfaces with clean water before grouting.
SSD Condition: Ensure no free-standing water is present in foundation surfaces or bolt holes. Surfaces should be in saturated surface dry (SSD) condition before grout placement.



Mixing Instruction :

- **Mixer Type** : Use mechanical mortar mixers, preferably slow-speed paddle (250–350 rpm) or revolving drum type. Hand mixing is not recommended.
- **Mixing Time**: Approximately 5 minutes until a homogeneous mix is achieved.
- **Water Addition**: Add KB BuildChem® CEMGROUT 60 slowly into the recommended amount of clean water.
- **Water Usage**: Use the minimum amount of water necessary for ease of placement to maintain optimal strength and consistency.
- **Consistency**: Ensure thorough mixing for maximum performance and uniformity.

STORAGE

- 12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from 5°C to 40°C.

Available Packaging

25 Kg Bag.

For,

- Flowable Mix: 4.5–5.7 kg of water to 30 kg of AnchorFix AG (W/P Ratio: 0.15 to 0.19)
- Plastic Mix: 4.2–4.8 kg of water to 30 kg of AnchorFix AG (W/P Ratio: 0.14 to 0.16)
- Dry-pack Mix: 3.6–4.5 kg of water to 30 kg of AnchorFix AG (W/P Ratio: 0.12 to 0.15)

Important Note :

- A. Job Conditions :** Actual **placing conditions**, including ambient and substrate temperatures, may require **adjustments in the amount of mixing water**.
- B. Practical Trials :** It is recommended to prepare **small trial batches** to determine the **optimal working consistency** for the specific application.
- C. Consistency Control :** Ensure the grout achieves the desired **flowability** or **packability** without exceeding the recommended water range, to maintain **strength and non-shrink performance**.

APPLICATION GUIDELINE

Placement Direction :

- To minimize air voids, apply grout from one side or corner only.
- Ensure continuous placement without interruptions.

Time of Placement :

- Use mixed grout within 30 minutes of preparation.

Flowable Mix Application :

- Suitable for low-pressure cement grouting equipment.
- Can also be hand-rodged into restrained sections.
- Vent high points to allow trapped air to escape.

Plastic Mix Application :

- Can be hand-rodged into place.
- Consistency can vary from thick cream to smooth plastic.

Large Volume Placement :

- May be pumped using heavy-duty diaphragm pumps, screw pumps, or other standard pumping equipment.

Grout Thickness :

- Single pour thickness: 20 mm to 100 mm.
- For sections >100 mm, add 50–70% (by weight) of 6–10 mm down-washed coarse aggregate to control heat buildup in the hardened grout.

CURING INSTRUCTION

- After placement, cure all open edges immediately.

RECOMMENDED METHOD

- Cover with plastic sheets or wet hessian cloth.
- **Proper curing ensures strength development, durability, and reduced shrinkage**

TECHNICAL DATA

Property	Test Method	Result / Typical Value
Appearance	-----	Free flowing grey powder (Typical Value)
Compressive Strength-Free Flowing Mix (W/P = 0.15)	IS 4031 Part 6, at 27°C	24 hours: >25 N/mm ² 3 days: >40 N/mm ² 7 days: >50 N/mm ² 28 days: ~60 N/mm ²
Free Linear Expansion	ASTM C827	0.2 – 2 %
Coefficient of Thermal Expansion	-----	11 – 12 × 10 ⁻⁶ /°C (Similar to concrete)
Fresh Wet Density	-----	2150 – 2350 kg/m ³
Material Required for 1 m ³ Volume	-----	1800 – 2000 kg
Compressive Strength – Blended with 50% of 10 mm aggregate	-----	28 days : 50 N/mm ²

SAFETY PRECAUTION

- Personal Protective Equipment (PPE): Always wear rubber gloves, safety shoes, and safety goggles while handling or applying the product.
- Avoid Contact: Prevent direct contact with skin and eyes.
- In Case of Eye Contact: Immediately rinse with plenty of water and seek medical attention.
- Hygiene: Wash hands thoroughly after use and avoid inhalation of dust.
- Storage & Handling: Keep out of reach of children and animals. Store in a dry, cool place, away from moisture and direct sunlight.

PRECAUTION & NOTES

- **Do not exceed or underdose water** : Always mix using the **recommended water-to-grout ratio**.
- **Intended Use** : KB BuildChem® CEMGROUT 60 is **designed for grouting only**, it **should not be used** for patch repairs or as an overlay in unconfined areas.
- **Temperature Considerations** :
 - Use **cold water** for mixing in **hot weather**.
 - Use **warm water** for mixing in **cold weather**.
- **Curing** : After placement, the grout must be **properly cured** to achieve its full strength and durability.

Disclaimer : Technical information is based on knowledge and experience of accurate results. These results refer to the long-term application of the product in practice. Recommendations and suggestions are listed for guidance only. Since site conditions during the applications are beyond the manufacturer's control, hence it is also the responsibility of the end-user to ensure that the content in their possession is the latest case.



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