



## TECHNICAL DATA SHEET

### ARKA EXPACEM 225- EXPANSIVE GROUT ADDITIVE

#### Description

ARKA EXPACEM 225 is a specialized expansive additive formulated to produce controlled expansion in cementitious grout and mortar systems. It reduces shrinkage, compensates for hydration and drying contraction, and improves micro-crack resistance in cement-based grouts.

#### Areas of Application

- Grouting for anchor bolts & machinery baseplates
- Structural void filling
- Pressure & duct grouting
- Tile adhesive formulations where shrinkage compensation is required

#### Technical Parameters

| Sl. No | Test Parameters                                     | Result               | Test Method |
|--------|-----------------------------------------------------|----------------------|-------------|
| 1      | Setting Time (Min)<br>Initial<br>Final              | 175<br>230           | ASTM C 191  |
| 2      | Volume Expansion (%)                                | Upto 4%              | ASTM C 827  |
| 3      | Compressive Strength<br>@3 day<br>@7 day<br>@28 day | 21.0<br>37.0<br>51.7 | ASTM C 579  |

#### Surface Preparation

- Ensure substrates are clean, sound, and pre-wetted (SSD).
- Restrict unrestrained surface area to minimize loss of expansion effects.

#### Mixing Instructions

To ensure proper mixing, a mechanically powered mixer or drill fixed with suitable paddle should be used for quantities up to 50 kg. Large quantities will require a high-volume drum mixer.

The cement (add sand if required) shall be slowly added to EXPACEM 225. Mixing shall be continued for 5 minutes, making sure that a smooth even consistency is obtained.

## Application Method

The unrestrained surface area of the grout must be kept to a minimum. The grout shall be placed within 20 minutes of mixing to gain the full benefit of the expansion process. Usual placing or pumping procedures shall be adopted ensuring a continuous operation.

## Curing

On completion of the grouting operation, any exposed areas which are not to be cut back should be thoroughly cured by means of water application, curing membrane or wet hessian.

## Dosage

Typical addition is 225 g of EXPACEM 225 per 50 kg cement in the grout mix

## Supply

225 g Sachet



### ARKA CRETE SUPPLEMENTS LLP

Manufacturer of construction chemicals

Regd. Office: H.No. 5-4-159, PLOT NO 26,  
Kamala Nagar, Vanasthalipuram, Hyderabad,  
Telangana - 500070.

Phone

**+91 9030024111**

Email

**arkacretesupplements@gmail.com**