

ARACONE AT

Non-shrink, free flow, extra high strength grout

Uses: ARACONE AT is used for heavy duty support beneath load bearing units especially where high static and dynamic forces occur. Also as an efficient medium for transferring all operational loads to the foundation. And for effective grouting of base plates and bolt pockets of Turbo Generators, Diesel Generating sets, Crane and Transporter Rails even with high wheel loadings, Heavy Reciprocating Equipments, Compressors, Pump sets, Pulverizing mills, Metal Shearing and Processing Machines, Steel Rolling Mill Beds, Cement, Textile, Granite and Paper Plant machinery.

Advantages:

- **Non shrink:** Will continue to occupy the filled space without shrinkage. Ensures high level of contact with load bearing areas. Also helps complete filling without voids. No need for external aids like rodding, poking, chaining etc.
- **Increased strength:** Can be used under heavy duty machines and equipment with high operational and static loads
- **Prepacked and factory controlled:** Consistency and reliability ensured. Site batching and blending variations eliminated.

- **Iron free:** No chance of deterioration by uncontrolled rust expansion, corrosion and staining of grout.
- **Chloride free:** Does not cause corrosion of machine parts, anchor bolts etc., in contact with grout

Description:

ARACONE AT is supplied as a ready-to-use dry powder, requiring only the addition of water to produce a free flowing non-shrink grout. The material is a blend of specially processed cement, pre graded fillers and additives which impart:

- High early and final strengths due to very low water requirement
- Controlled expansion to retain the original volume filled even after setting
- Free flow characteristics without any segregation and bleeding
- ARACONE AT, on setting, will have a microcellular structure with high frost, fire and oil resistance.

Technical Support:

ARACONE offers a comprehensive range of high performance, high quality concrete repair and construction products. In ARACONE AT addition, ARACONE offers technical support service to specifiers, end-users and contractors, as well as onsite technical assistance in locations all over the country.

ARACONE AT

Properties:

- **Compressive strength (N/mm²) @ Flowable (W/P 0.16):**

1 day - 40; 3days - 60;
7days - 70; 28days - 80;

Note: Cubes cast are kept under restraint before testing, to simulate site conditions. Size of the cubes used 70.6mm x 70.6mm x 70.6mm tested at 27°C.

- **Tensile strength:** At 28 day tensile strength achieved is typically 3.5 N/mm².
- **Young's modulus :** 28 kN/mm²
- **Expansion characteristics:** Controlled expansion occurs in the unset material to ensure that the grout, when cured, will continue to occupy its original volume within the confines of the voids in which it was placed (2% max.).
- **Unrestrained expansion :** Up to 4%
- **Time for expansion:** Expansion starts 20 minutes after mixing and will be completed 150 minutes later.

- **Pressure to restrain plastic expansion:**
Appro. 0.004N/mm²
- **Coefficient of Thermal expansion :** 11 x 10⁻⁶ per °C
- **Thermal conductivity :** 1W/m°C
- **Fresh wet density:** At flowable consistency 2200kg/m³
- **W/P ratio:** Recommended water powder ratio for flowable consistency is 0.16. Total quantity of water required for 25 kg bag is 4 litres.
- **Flow characteristics:** The maximum distance of flow is governed by the gap width and the head of the grout. Typical data for flow design, assuming grout is poured immediately after mixing, is given in the table :

Grout Consistency	Max. flow distance in mm			
	Gap Width (mm)	50mm head	100mm head	250mm head
Flowable	30	200	1000	2000
	40	500	1500	2500
	50	1000	2000	3000

ARACONE AT

N.B: This table is based on the following factors.

Temperature: 27°C; Water saturated substrate;

Minimum unrestricted flow width: 300mm.

Application guidelines a few DOs and DON'Ts

DO's:

- Measure water precisely
- Mix mechanically
- Use mixed grout within 30 minutes
- Clean concrete and steel surfaces thoroughly before grouting
- Build a strong, carefully designed leak proof shuttering
- Start curing when grout reaches 'touch-hard' state – within 4 - 6 hrs.
- Cure properly for at least 7 days.

DONT'S:

- Mix cement, sand, fibers, admixtures, etc., with ARACONE AT
- Mix water more than specified
- Pour grout from two sides while grouting base plates.
- Pour grout from a height
- Use vibrators in grout
- Use damaged bags of ARACONE AT

Detailed application procedure will be supplied by ARACONE on request.

Estimating

Packaging: ARACONE AT is supplied in 25 kg bags.

Yield: One bag of ARACONE AT will yield 12.5 litres at flowable consistency

Shelf life: 6 months when stored under cold dry conditions in unopened bags.

Precautions

Health & Safety instructions: ARACONE AT is nontoxic, but alkaline in nature. Gloves should be worn while handling this product. Splashes of grout on the skin or eyes should be washed off with clean running water. In the event of prolonged irritation, seek medical advice.



REDWOP CHEMICALS PVT. LTD.

Office:

1st Floor, Suryachandra Complex,
Opp Punjab Honda Showroom,
Kalawad Road,
Rajkot-(Guj.)INDIA.
Pin.360005

Factory:

Village Shapara, Nr.Jay Internation
School,Opp Arya Bhagwati Society,
Kalawad Road,
Metoda,G.I.D.C
Rajkot. (Guj.)INDIA.

Customer Care: +91 97246 55551

Phone no.: +91 281 2576664

E: info@redwopchemical.com

W: www.redwopchemical.com

NOTE: Redwop products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale,

