

ace

REFRACTORIES

P R E S E N T S



SHRINKKOMP

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[High Strength] [Free Flowing] [Self-levelling] [Chloride Free] [Non-Metallic]

[Non-Shrinking Ready to use Grouts for Machine Foundations]

JAS-ANZ



ROOTED FIRMLY TO THE SPOT

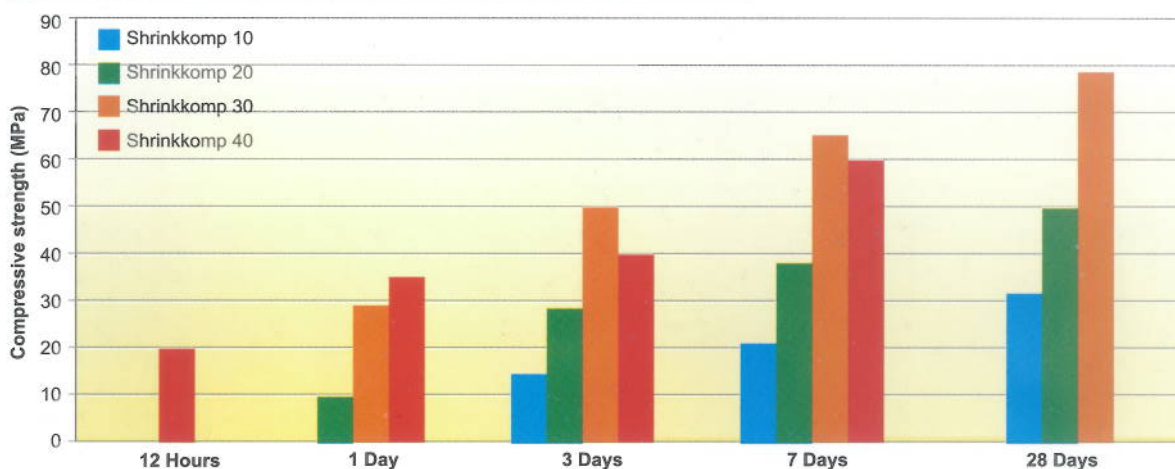


PRODUCT FEATURES

FEATURES	10	20	30	40
	General Purpose (Plastic)	Free Flow High Strength	Free Flow High Ultimate Strength	Free Flow High Early Strength
Grain Size (Max. Size of aggregate)(mm)	0-6	0-3	0-3	0-3
Water (%)	12-14	13-15	15-17	20-22
Compressive Strength (Mpa)				
12 Hours				20
1 Day	-	10	28	35
3 Days	15	28	50	40
7 Days	21	38	65	50
28 Days	32	50	78	-
Linear Expansion (%), max (ASTMC 806-80)				
Free	0.5	0.2	0.3	0.3
Restrained	0.25	0.12	0.15	0.15
Yield (slurry in litres) (50 Kgs of dry grout)	25	25	25	25
Packaging (HDPE bag with liner)	50 kgs	50 kgs	50 kgs	50 kgs
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* Shrinkkomp with specific properties other than above can also be tailor made.

COMPRESSIVE STRENGTH DEVELOPMENT



Why is Shrinkkomp superior to Conventional Non-Shrinking Grout ?

Free - Flowing

Non-Plastic. 145% flow with 18% water and 100-125% flow with 15% water.

Non - Rusting

A non-metallic type of grout, Shrinkkomp is free from any iron or oxidising agent.

Tailor - Made

Compositions of Shrinkkomp offered to meet customer specifications.

Permanent Expansion

No gas forming agents for temporary expansion.

Chloride Free

Shrinkkomp products do not contain chemical accelerators like chlorides for early strength development.

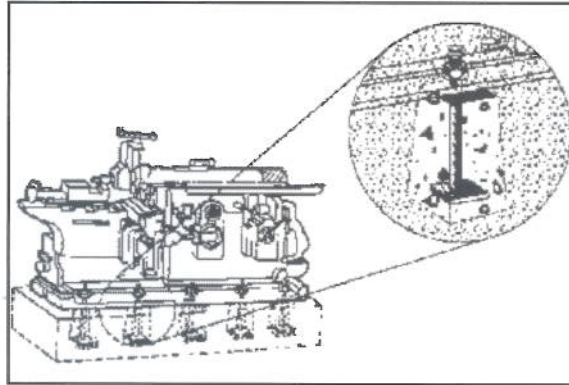
Ready-to-Use

Add appropriate amount of water, mix well and pour.



ADVANTAGE

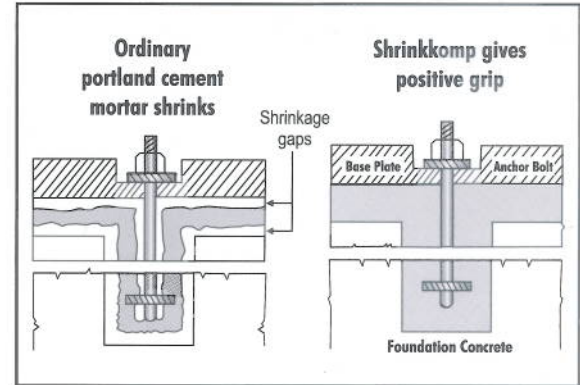
Where to use Shrinkkomp?



SHRINKKOMP, a new range of non shrinking and free flowing grouts, composed of an expansive hydraulic setting binder and select-graded aggregates have been developed exclusively for grouting machine and column foundations. Shrinkkomp offers high structural stability to the machine and prevents any base vibration during operation. It could be used for:

- Anchoring of machine base plates and bridge bearings.
- Permanent anchoring of bolts.
- Providing structural strength to the machine base and column foundation.

How is Shrinkkomp Superior to OPC?



Ordinary Portland Cement (OPC), When mixed with aggregates and water, shrinks when it hardens, thus leaving gaps in foundations which can affect the quality of anchoring creates vibrations and damage machines. Shrinkkomp grouts on the other hand, can be poured, are self leveling and expand on hardening. As a result these grouts provide a positive grip monolithic effect and thus very suitable for static as well as dynamic loads.

STEPWISE PROCEDURE FOR USE

1. Surface Preparation :

Ensure a clean and strong concrete base. Remove all dust by suction or compressed air. Wet the surface thoroughly before grouting. Remove all free water.

2. Mixing:

Mix dry grout with recommended quantity of water in a mechanical paddle/drum type mixer. Conventional 200/140 ltr mixer is suitable for 200 kg dry grout. Restrict mixing to quantities which can be placed in ten to fifteen minutes. Mix for a minimum of three minutes. The temperature of the Grout while mixing should be preferably below 25°C.

3. Placing and Compaction:

The grout should be placed quickly and continuously, either through the holes in the base plates or from one side only to ensure complete filling without entrapment of air. Grout should be properly spread and compacted by rodding. Judicious vibration with a needle vibrator could also be used, but over-vibration should be avoided as it can cause

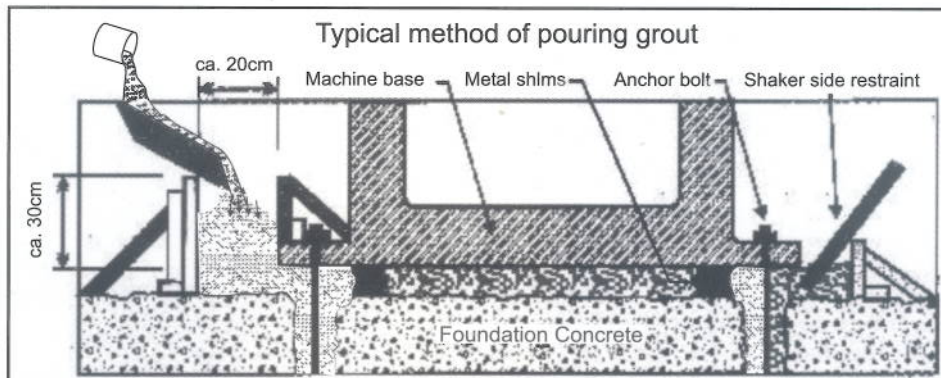
segregation and bleeding. A preferable method to ensure flow and compaction of the grout below the bed plates is to use long pieces of doubled over flexible steel strapping or chains. The forward and backward movement of the strap or chain will assist in the flow of the grout into place. Steps must be taken to keep the grout in full contact with the underside of the bed plate until the grout sets. Maintaining a small head of fresh grout in the forms would help.

4. Restraint:

Restrained expansion induces precompression in the grout, thereby improving its strength and bonding property. Heavy backup blocks of timber or concrete should be fixed on all sides of the base plate to prevent the grout escaping, through the openings in the base plate. To obtain effective shrinkage compensation, adequate restraint must be ensured on all sides for a period of seven days. In the case of bolt holes, this restraint is naturally ensured. When using in locations with exposed top reinforcement-of atleast 0.3 per cent of area - in both directions within four cms from the top should be provided.

5. Curing:

Cure for a minimum of seven days for Shrinkkomp 10,20 and 30 and one to three days for Shrinkkomp 40, by ponding water or with wet Hessian cloth. Cover top and stray openings of restraint form work with wet sack for a minimum of seven days.





TESTING

Every batch of Shrinkkomp is tested for expansion and strength before dispatch. If testing for strength at site is considered necessary, the following guidelines for test procedure can be of assistance. As Shrinkkomp is recommended for use only in confined locations, the test specimens for strength should also be kept under restraint, all six sides upto the time of the test, with following sequence * 1 st 24 hrs.- At +90% relative humidity under wet cover. * After 24 hrs. - Immersed in water along with mould and top cover for seven days.

WIDE APPLICATION BASE

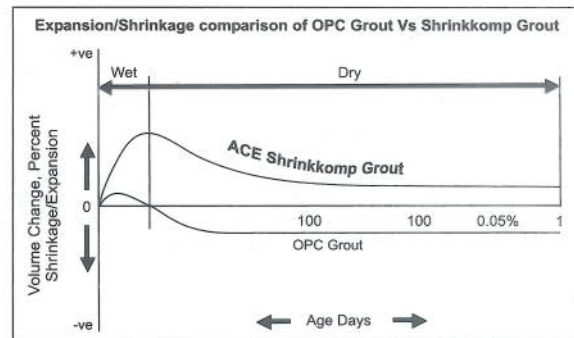
ACE's range of Shrinkkomp grouts 10,20,30 and 40 have been designed to cover all types of grouting applications from the traditional to the extraordinary.

- Grouting of machine base plates, anchor bolts and drill holes in rock and concrete structures.
- Grouting for static and dynamic loads.
- Grouting for emergency repairs and early commissioning.

Shrinkkomp is a well known and established product range and is used extensively by the cement, chemical, engineering, fertilizer, glass, power, steel and other industries.

PERMANENT EXPANSION OF SHRINKKOMP GROUTS PROVIDE SOLID GRIP

These special non-shrinking grouts comprise of expansive hydraulic setting binders and select grade fillers. They expand by a fraction of a percent in about seven days. This expansion when restrained, offsets the shrinkage, which normal cement based grouts exhibit. The expansion takes place uniformly. Since Shrinkkomp grouts do not rely on gas forming agents like many other patented grouts, their expansion is permanent, ensuring a firm and lasting grip. Shrinkkomp grouts are tested to IS:4031 and ASTM C 806-80 standards for strength and expansion capability.



DO'S

- Provide adequate restraint preferably on all sides for a minimum of seven days for Shrinkkomp 10, 20 and 30 and one to three days for Shrinkkomp 40 to ensure effective shrinkage compensation.
- When using in locations with exposed top, reinforcements of a minimum of 0.3 percent of cross sectional area in both directions within 4 cms from the top area is essential.
- Consult the design engineer before placing/commissioning machine on foundation.
- Use recommended quantity of water only.
- For extreme hot weather conditions use chilled water(5-10°C)
- Use preferably within 6 months from the date of manufacture.
- Store in a dry place.
- Place the mixer as close as possible to the area of operation.

DO'N'TS

- Do not use any admixtures.
- Do not batch grout by fraction of a bag.
- Do not add water in excess.
- Do not expose to moisture and direct sunlight when storing.
- Do not place the mixer under direct sunlight.
- Do not expose the area of grouting to heat and sunlight.

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