



ARMSTRONG CHEMICALS PVT. LTD.,
Bengaluru
An ISO 9001 Certified Company



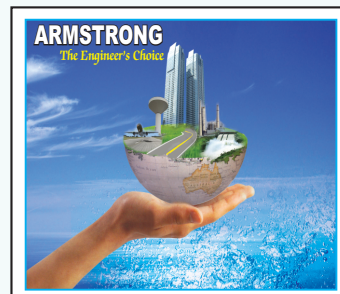
**(Free flow, high strength, Non-shrink
cementitious precision Grout Powder)**

Complies with B.S. 1881 part 116:1983 and ASTM C1107

DESCRIPTION OF THE PRODUCT

RAPIDSTRONG GROUT POWDER 2 is a high early strength, non-shrink, free flow, cementitious precision GROUT POWDER 2 specifically designed to use for precision grouting of structures to withstand against static conditions and dynamic loads, it is a ready to use material available in powder form, needs to be addition of water at a controlled ratio to have a free flow of grout mix.

RAPIDSTRONG GROUT POWDER 2 is a unique formulation product blended with port land cement, high performance bonding additives and inert filler materials which impart controlled expansion in the plastic state. The controlled water mix ensures high early strength.



ADVANTAGES

- High strength chemicals additives mixed with graded blended cement and filling materials will produce gaseous expansion to compensate against shrinkage and settlement in the plastic state.
- It produces high early strength of the mix by controlled water usage, without adding chlorides.
- Excellent cured strength of the grout will ensure high durability of the mix
- The excellent flowability of the mix ensures high level of contact with load bearing area.
- High bond strength will ensure extended performance guarantee of the repairs in static conditions and dynamic load bearings.
- Pre-packed ready to use material without metallic iron content needs to be admixed with controlled ratio of water to get better results without any batch mixing variations.

TECHNICAL PROPERTIES OF GROUT POWDER 2

1)	Compressive Strength (W/P : 0.18) flowable (BS 1881 Part 116 : 1983) W/P : 0.165) Pourable	67 N/mm ² @ 28days ageing 70 N/mm ² @ 28days ageing
2)	Compressive Strength with addition of aggregates – 100 % (IS : 516 – 1959) W/P 0.18	79 N/mm ² @ 28days ageing
3)	Flexural strength (W/P: 0.18) (B-S.4551, 1998)	10 N/mm ² @ 28 days ageing
4)	Tensile strength (W/P: 0.18)	3.5 N/mm ² @ 28 days
5)	Adhesive strength (W/P=0.18)	21 N/mm ² @ 28 days
6)	Density of the mix	2250 Kg / m ³
7)	Consistence load resistance	5-25 N/mm ² @ 500 Cycles Per Min /2 Million cycles
8)	Co-efficient of thermal expansion	11 x 10 ⁻⁶ /°C
9)	Unrestrained Expansion	3 to 4% in the plastic state



APPLICATION INSTRUCTIONS :

Surface Preparation : The receiving surface must be free from oil, grease, loose particles and other contaminations if any. Ensure that the substrate must be in sound condition prior to application of grout material. All the defects has to be rectified by using suitable materials, ultimately to see that the surface is free from dirt, dust and loose particles, after careful cleaning the entire surface has to be water washed.

Base Plate and Foundations : As mentioned above the surface of base plate and foundations must be clean and free from oil, grease and other contaminations. Air blowers and water jet has to be used for proper cleaning. Special care has to be taken for base plates and foundations for provision of air ventilations at the time of cleaning and application.

Form work: It is essential to have perfect form work water tight / leak proof for compact ability of the grout mix special designed rubber strips has to be used for this purpose.

The gap width between the form work and plate should not exceed 150mm on the pouring side and 50mm on the other sides. It is preferable to have no gap at the flank sides.

Mixing : To ensure the desired / consistent results, electrical pedal stirrers / mixtures should be used for proper mixing of grout powder with suitable quantity of water. For more than 100mm thick, graded aggregates has to be added for mixing that can be uniformly mixed by using stirrers and mixtures only.

To enable the grouting operations to be carried out continuously, it is essential that sufficient mixing capacity and labour are available. The use of a grout holding tank with provision to gently agitate the grout may be required.

RAPIDSTRONG GROUT POWDER 2 has to be placed after 20 minutes of mixing of required water has to complete within 120 minutes.

Water Ratio : To achieve desired consistency of the grout mix, the ratio of mixing for RAPIDSTRONG GROUT POWDER 2 with required water as given below :

For 20 Kgs. : Pourable : 3.36 Ltrs / Flowable : 3.76 Ltrs | **For 40 Kgs. :** Pourable : 6.72 Ltrs. / Flowable : 7.52 Ltrs
Take 25 Kgs of RAPIDSTRONG GROUT POWDER 2 that should be slowly added to the water as per above and continuous mixing should be done for at least 5 Minutes.

Placing : The mixed RAPIDSTRONG GROUT POWDER 2 grout shall be placed within 20 minutes of mixing to gain full benefit of the expansion process at 30°C.

APPLICATION : The thicknesses of RAPIDSTRONG GROUT POWDER 2 can be apply in a single pour upto 100mm when used as an under plate grout.

For application the thickness if more than 100mm it is necessary to fill out RAPIDSTRONG GROUT POWDER 2 grout with well graded silt free aggregate to minimize heat build up. Can be used applied 10mm aggregate 50-100% by weight of RAPIDSTRONG GROUT POWDER 2.

STORAGE & SHELF LIFE :

RAPIDSTRONG GROUT POWDER 2 - has a shelf life of 6 months when it was stored in a dry condition without effecting any moisturisation in a shield poly bags.

PACKING : RAPIDSTRONG GROUT POWDER 2 - grout is supplied in 20 & 40 Kgs moisture resistant bags.

YIELD : The approximate yield **per 20 Kgs.** bag for different consistencies as follows Flowable : 10.8 / Pourable : 10
The approximate yield **per 40 Kgs.** bag for different consistencies as follows Flowable : 21.6 / Pourable : 20

PRECAUTIONS : RAPIDSTRONG GROUT POWDER 2 grout is alkaline and should not come into contact with skin and eyes. Inhalation of dust during mixing should be avoided. Gloves, goggles and dust mask should be worn. If contact with skin occurs, it shall be washed with water. Splashes to the eyes should be washed immediately with plenty of clean water and medical advice sought.



Manufacturers :

ARMSTRONG CHEMICALS PVT. LTD.

An ISO 9001 Certified Company

36/1, G-5, New International Airport Road, Ganga Nagar, BENGALURU - 560 032.

e-mail : armstrongchemicals@gmail.com | Web : www.acpl.live | www.armstrongchemicals.in

Please Contact for Customer Care Information : **08095621122** Toll Free No. **1800 103 2034**



ARMSTRONG CHEMICALS
TRUSTED AND ACCLAIMED FOR ITS
MULTIPLE ACTION PERFORMANCE

ARMSTRONG

