

# BRONCO® CEMGROUT60

Non-Shrink General Purpose Ready to Use Cementitious  
Free Flow Grout

## DESCRIPTION

**BRONCO® CEMGROUT 60** is ready to use blend of dry powder which mixed with clean water, it produces a free flowing, non- shrink grout. The material is based on cements, graded aggregate fillers and additives which imparts controlled expansion of mortar and reduce water demand, thus ensuring positive contact with machine base plate, high early strength and long term durability. **BRONCO® CEMGROUT 60 conforms to ASTM C 1107, Grade-A.**

## INDICATIVE CHARACTERISTICS

Appearance	Free flowing grey powder ( Typical Value)		
<b>Compressive Strength, N/mm<sup>2</sup> (Typical) at 27°C, as per IS 4031</b>	Dry Pack (W/P=0.14)	Pourable Mix ( W/P=0.16)	Free flowing Mix ( W/P= 0.18)
<b>3 days</b>	30	20	15
<b>7 days</b>	45	40	35
<b>28 days</b>	60	55	50
<b>Free linear Expansion, ASTM C 827</b>	0.2-2%		
<b>Coefficient of Thermal Expansion, per °C</b>	11-12x10 <sup>-6</sup> (Similar to Concrete)		
<b>Fresh wet density, kg/m<sup>3</sup></b>	2150-2350		
<b>Material required for 1m<sup>3</sup> Volume of Grout, kg</b>	1800-2000		
<b>28 days Comp. Strength, Blended with 50% of 10 mm aggregate</b>	50 N/mm <sup>2</sup> (Typical) at 27°C		
<i>Note: Compressive strength is determined by using 7cm cube specimen at labor controlled condition, Water demand may vary depending upon site condition.</i>			

## USES

Machine and steel column foundation.  
Anchorage of bolt and steel bar.  
Base plate grouting of cold as well as hot rolling mills in steel plants.  
Grouting of bearing pads.  
Grouting of heavy Turbines base.

## METHOD OF APPLICATION

### Surface Preparation

Surface laitance and unsound concrete must be chipped away so that a reasonable rough, but strong sound surface is provided. All surfaces must be free from oil, grease and dust; this particularly applies to the underside of base plates, bolts, pipes or other materials which may have surface contact with the grout. After cleaning, saturate the concrete surfaces with clean water. Ensure that no free standing water is present on surfaces of foundations or in bolt holes before applying of **BRONCO® CEMGROUT 60**.

### Mixing

Use mechanical mortar mixers, preferably of the slow speed (250-350 rpm) paddle mixer or revolving drum type mixer. Hand mixing rarely achieves the desired result. Allow approx. 5 minutes for mixing. Thorough mixing is essential for achieving maximum results. Add **BRONCO® CEMGROUT 60** slowly into recommended amount of clean water in a mixer. Use as little water as is required for ease of placement.



**For Flowable Mix:** 3.75 – 4.75kg of water to 25 kg of **CEMGROUT 60** (W/P Ratio: 0.15 to 0.19)

**For Plastic Mix:** 3.50 – 4.00kg of water to 25 kg of **CEMGROUT 60** (W/P Ratio: 0.14 to 0.16)

**For Dry-pack Mix:** 3.00 – 3.75kg of water to 25 kg of **CEMGROUT 60** (W/P Ratio: 0.12 to 0.15)

Job placing conditions, including temperatures may require mixing water adjustments as may be essential for practical purposes. Small trial batches to ascertain the best working consistency for the operation are recommended.

### Application

In order to prevent air voids apply mixed **BRONCO® CEMGROUT 60** from one side or corner only. **BRONCO® CEMGROUT 60** should be placed within half an hour of mixing. Flowable mix may be used with low pressure cement grouting equipment or may be hand rodded into restrained sections. High points must be adequately vented to allow entrapped air to escape. Plastic mortar may be rodded into place. Consistency can range from thick cream to smooth plastic. For large volume of placement areas **BRONCO® CEMGROUT 60** may be pumped with a heavy duty diaphragm pump, screw or any other standard pump. **BRONCO® CEMGROUT 60** shall be used in the thickness range of 20mm to 100mm in single pour. For thickness of a section is more than 100mm, 50-70 % (by weight of **CEMGROUT 60**) 6-10mm down washed coarse graded aggregate shall be used to reduce temperature built up in the hardened grout.

### CURING

After completion of concreting work the open edges shall be cured by applying suitable **BRONCO® CEMCON CURE-W** or any other effective curing membrane manufactured by **BRONCO**. Other curing methods, such as covering with plastic sheet, wet hessian cloth are also accepted.

### ADVANTAGES

Controlled expansion to ensure positive surface contact and low water permeability.

Quickly develops high compressive strength to facilitate early reinstatement.

High ultimate strength and zero water permeability.

Chloride and iron free, hence no rusting or staining on exposed edges.

Pre-mixed, addition of water is only needed.

Easy to pour free flowing and self-levelling nature; it can be pumped or poured into restricted locations.

### SHELF LIFE & STORAGE

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

### PACKAGING

25kg waterproof laminated HDPE bag.

### SAFETY

Wear hand gloves, safety shoes and safety goggles while using and handling the product.

In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

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## ADDITIONAL INFORMATION

The **BRONCO** range of associated products includes high strength cementitious, epoxy grout, polyester resin based mortar for rapid presenting of steel shims to level or for direct bedding of small base plates; Resin Anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available a range of products for use in construction; viz., admixtures, curing compounds, release agents, flooring systems and repair mortars. Separate datasheets are available on these products. Denotes the trademark of [www.bronco.in](http://www.bronco.in)

## IMPORTANT NOTE

**BRONCO** products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst **BRONCO** endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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## BRONCO BUILDSMART LLP

215, Symmers Business Park, Sarkhej-Shantipura Cross Road,  
Opp. Hotel Yellow Lime, Sarkhej, Ahmedabad 382210  
M: 88660 71009 | E: [info@bronco.in](mailto:info@bronco.in)

