



# SOLIDGROUT 60

Ultra High Strength, Non-Shrink Cementitious Grout



## BENEFITS

- > Prepacked, factory controlled consistent material needing only addition of water.
- > Shrinkage offset by expansion to ensure original volume is retained.
- > Free flowing, self levelling grout.
- > Easy placement and filling baseplates of machinery.
- > Non-metallic, non-toxic and chloride free.
- > Holds up to industrial machinery vibration and impact.
- > Extended work time for easy placement.
- > Excellent adhesion to concrete and steel.
- > Non staining.
- > High ultimate strength and durability.

## DESCRIPTION

**SOLIDGROUT 60** is based on specially processed cement containing fillers and additives. **SOLIDGROUT 60** is supplied as ready to use grout requiring addition of precise quantity of water at site (3.750 ~ 4 litre / 25 kg grout). **SOLIDGROUT 60** is suitable for gap widths of between 10 ~ 50 mm. For width less than 10 mm, resin grout can be used (see separate data sheet for more information) for thickness in excess of 50 mm (approx. 75 ~ 100), cleaned washed 10 mm aggregates can be incorporated at the rate of 50 ~ 100% of the quantity of grout used. This reduces the heat of hydration. Low water demand ensures high early strength.

**Expansion :** 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. For thicker section it is necessary to fill out grout with well graded silt free aggregate to minimize heat build up.

## USES

**SOLIDGROUT 60** can be used to bolt pockets and base plate grouting of all equipment, crane, bases and all types of machinery with dynamic load.

## PACKING

**SOLIDGROUT 60** is supplied in 25 kg HDPE bag.

## SHELF LIFE & STORAGE

**SOLIDGROUT 60** will have a shelf life of 6 months in unopened container when kept in dry conditions at a temperature between 5 ~ 45 °C. Storage at higher temperature or high humidity may reduce shelf life.



## HEALTH & SAFETY

**SOLIDGROUT 60** is non hazardous but alkaline in nature. However, inhalation of dust should be avoided while handling. In its wet state, if contact with eye occurs, wash well with clean water. All equipments and tools must be rinsed with water immediately after use and then dried.

## PROPERTIES

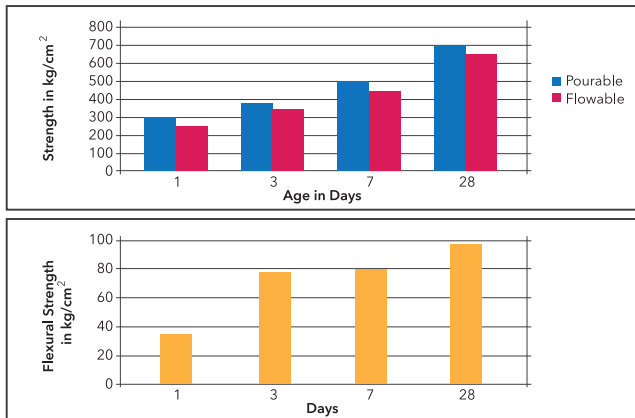
|                   |                                                                    |
|-------------------|--------------------------------------------------------------------|
| Yield per 25 kg   | 12.5 litre approx.                                                 |
| Pourable Life     | 20 minutes.                                                        |
| Application Temp  | 10 ~ 40 °C.                                                        |
| Expansion (% vol) | 0.8 ~ 1.5%.                                                        |
| Time of Expansion | Start - 20minutes (after mixing with water). Finish - 120 minutes. |
| Flow              | 17 ~ 24 cms of flow table.                                         |

**Typical Strength Development :** Compressive strength: Average strength (kg / cm<sup>2</sup> ) at flowable and pourable consistency tested as per **BS:1881 Part 116, 1983.**

| Age in Days | Compressive Strength in kg / cm |                   |
|-------------|---------------------------------|-------------------|
|             | Pourable W/P=0.15               | Flowable W/P=0.16 |
| 1           | 300                             | 250               |
| 3           | 375                             | 350               |
| 7           | 500                             | 450               |
| 28          | 700                             | 650               |

\* 7.07cm x 7.07cm size restrained cubes were tested

# SOLIDGROUT 60



## HOW TO USE

### Surface Preparation :

- 1) All contaminated surfaces must be cleaned thoroughly by chemical or mechanical methods.
- 2) All bolt pockets and baseplates must be free from dust and of sound substrate. If needed, substrate with water to allow for full absorption for at least 24 hours. Just before the grouting is to commence, all water must be removed completely leaving the surface only damp.

Mechanical mixing using grout mixer of freefall concrete mixer is recommended. No hand mixing is permitted.

- 1) Place 80% of the water required in a concrete mixer (100% in case of a grout mixer).
- 2) Slowly add the required amount of **SOLIDGROUT 60** while continuously stirring for 1 minute. Add balance quantity of water (20%) and mix for 3 ~ 5 minutes. This will provide a smooth even consistency of grout. The mixed grout must be placed immediately and grouting must be continued till the cavity is filled.

**Bolt Pocket :** Depending on the size of the bolt pockets, 50 ~ 100% cleaned 10 mm sound aggregates by weight of grout consumption may be incorporated to economise on grout and also to keep the heat of hydration low. When the thickness exceed 100 ~ 150 mm our technical department may be contacted for advise. There must be 12 hours gap between bolt pocket and baseplate grouting sequence.

**Baseplate :** Leak proof strong formwork must be provided to withstand operational stresses while grouting and all edges must be sealed with **SOLIDGROUT 60** of trowelling consistency to arrest the grout from flowing out of formwork. The sealed edges must be strong enough to resist fluid grout (atleast 1 ~ 2 hours after sealing). Hydrostatic head 150 ~ 250 mm must be provided to enable the free flowing of grout under baseplate. Grouting must be continuous until the cavity is completely filled to the desired level. The exposed areas must be kept to a minimum. 100 ~ 150 mm on the grouting side and 50 mm on the opposite side. All exposed areas must be restricted by covering with wooden planks or polythene sheets with sand sprinkled on top on the sheet to avoid crack on the grouted surface. (Separate application guide available on request).

**Curing :** 3 ~ 4 hours after grouting, all exposed area must be cured and wet cloths (keep wet always) or water ponding wherever possible for minimum 7 days. (Separate application guide available on request).

## PRODUCT

**SOLIDGROUT 60** is a single pack ready to use, ultra highstrength, free flowing, non shrink grout. **SOLIDGROUT 60** is a blend of specially processed cement and special fillers, free from corrosive substances and additives. It complies with **BS:1881 Part-116, 1983, BS:4551** and **ASTM C469-83, ASTM C 940**.

## QUALITY ASSURANCE

**SOLID** manufactures the entire range of construction chemical under compliance of SIRIM and other international standards (ASTM, BS, GBI, LEED).

## TECHNICAL SERVICES

While new advance and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our technical personnel and experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

**Disclaimer :** The information provided in the data sheets is based on both current development of work and years of field experience. Efforts are made to ensure that the information is reliable, however, we cannot accept the responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc. In view of continuing research and development (R&D) undertaken in our laboratories, we advise customers to ensure that the data sheets provided are not superseded by an updated publication. All products are sold are subject to our standard condition of sale, which is available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact our local SOLID representative.



### FACTORY OFFICE

Lot 772 (10-14), Jalan Subang 4, Kawasan Perindustrian Sg. Penaga  
47620 Subang Jaya, Selangor Darul Ehsan, MALAYSIA.

+603-8081 4777 / 4776

info@solidolutions.com.my www.solidolutions.com.my

+603-8081 4771