



CIVILS & REPAIRS

TECHNICAL DATA SHEET

MULTIGROUT 60 Construction Grout

HIGH FLOW

HEAVY DUTY

NON-SHRINK

HIGH EARLY AND ULTIMATE STRENGTH

>60 N/MM² IN 28 DAYS

NO BLEED

CHLORIDE FREE



Multigrout 60 is a heavy duty, single component, cementitious, non-shrink, highly flowable grout. It is a blend of modified cements and granular aggregate free from corrosive substances. Multigrout requires only the addition of water to produce a highly fluid grout with excellent penetration and levelling characteristics allowing easy placing by pump or pouring. This provides a strong, void-free fill which is durable and of low water absorption. Multigrout is mainly used for grouting under machinery baseplates, stanchion baseplates, transformers handrails and many other similar applications.



The Concrete Society
Established in 1966



For further information, consult our Technical Department.

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PRODUCT INFORMATION

FORM	Granular
STANDARD COLOUR	Grey
MAX AGGREGATE SIZE	1.2mm
HAZARD INFORMATION	Contains cement. Consult Safety Datasheet before use
CLEANING	Clean tools, equipment, etc. using warm water. Mechanical means are necessary when the product has set
PACKAGING	25kg multilayer paper
STORAGE INSTRUCTIONS	Store unopened containers in a dark, cool, dry location away from extremes of temperature
SHELF LIFE	6 months in unopened manufacturer's containers

APPLICATION INFORMATION

WATER DEMAND	Dry Pack – 2.5 to 3L per 25kg Trowellable – approx. 4L per 25kg Flowable – approx. 5L per 25kg
APPLICATION TEMPERATURE	+5°C to +30°C
WORKING TIME	Approx. 30 minutes
APPLICATION THICKNESS	10 to 75mm
YIELD	Approx. 13.7 L per 25kg bag

TYPICAL PERFORMANCE INFORMATION

SETTING TIME	Initial 180 minutes Final 300 minutes
SHORT TERM EXPANSION	1%
DENSITY	2100 kg/m ³
COMPRESSIVE STRENGTH	24hr 25 MPa 7 day 40 MPa 28day 60 MPa
FLEXURAL STRENGTH	28day 9 MPa
BOND STRENGTH	Typically >1MPa

DIRECTIONS FOR USE

PREPARATION

All surfaces must be sound, clean, and free from any loose or friable material. Concrete surfaces must be free of any contamination, including curing membranes or sealers. For maximum bond, mechanically roughen surfaces. All surfaces must be saturated with clean water. Remove all surface water immediately before the application of Multigrout 60. Bolt holes, etc. should be blown clean of any dust, dirt or debris, or standing water. Metal surfaces should be free from rust, grease, oil or other contamination. Removable shims should be lightly oiled or greased. Formwork should be constructed to prevent leaks and located to minimise any exposed areas of grout.

MIXING

Mix each 25kg bag with clean water as above depending on the required working consistency. Multigrout should be mixed with the correct amount of water using a mechanical method, i.e. grout mixer or a low-speed drill and mixing paddle. Do not mix more grout than can be used in 30 minutes.

APPLICATION

It is recommended as a first stage to grout in any holding-down bolts to ensure they are adequately filled and void-free. Pour the grout into the pre-wetted tightly shuttered area using a header box so that a suitable head of grout can be maintained. Care should be taken to ensure that there is a continuous supply of mixed grout available as it is important to maintain a continuous flow of grout throughout the pour. Grout should be poured from one side only in such a way as to prevent any air becoming trapped under the plate. Ensure all trapped air is displaced by grout. If necessary, make breather holes and/or use chains or rods to aid flow. Multigrout 60 can be placed up to 75mm thick when used to grout below baseplates. For large applications, Multigrout can be pumped into position.

FINISHING

The grout must be finished flush to the edge of base plates. The easiest way of achieving this is to trim back the still 'green' grout after stripping formwork. This is normally achievable after 1-2 hours, depending on site conditions. Where this is not possible, exposed areas should be fully cured with application of an appropriate curing membrane, continuous water spray or damp Hessian.

RESTRICTIONS

Multigrout 60 is only recommended for use with static loads. For applications subject to dynamic loads or vibration, we recommend the use of Largrout EP epoxy grout. Poor application procedures can result in voids under the base plate which can greatly reduce the Effective Bearing Area. This increases the point loading on the grout and can result in failure. Cement based grouts should be finished flush or chamfered to the base plate. This minimises the exposed grout area and reduces the risk of edge cracking. Ambient and substrate temperatures should be above 5°C during application. Freshly grouted areas should be protected from frost until the grout has fully hardened. When ambient or substrate temperatures are below 10°C, allow extra time for the grout material to harden before applying loads, tensioning bolts or removing formwork.