



GENERAL PURPOSE CONSTRUCTION GROUT



DUNLOP GENERAL PURPOSE CONSTRUCTION GROUT is an economical, high-strength construction grout that can be mixed to a non-slump or pourable mix and is suitable for a wide range of projects and applications. The cement-based formulation contains additives that provide positive expansion when the grout is in its plastic state (Class A as per previous standard) and is also shrinkage compensated when in the hardened state. It is suitable for applications requiring a grout thickness between 10mm and 100mm. **DUNLOP GENERAL PURPOSE CONSTRUCTION GROUT** is ideal for applications where high compressive and flexural strength is required. Depending on the water ratio, a compressive strength of up to 70MPa can be achieved after 7 days and up to 85MPa* after 28 days a flexural strength of between 7–12MPa can be achieved after 28 days. *(12% water at 23°C 99% RH)

TYPICAL APPLICATIONS

Typical application areas for non-structural purposes such as: General purpose construction grouting applications, base plates, machine bases, equipment support, column bases (steel and precast concrete), precast panel connections and between precast panels, underpinning, void filling and dry packing, conveyor supports and other similar grouting applications.

SURFACE PREPARATION

The surface to be grouted must be clean, sound and free of dust, dirt, oil, grease, curing compounds, release agents and other barrier materials. Damaged or contaminated concrete must be removed to obtain a good bond to the substrate. It is recommended to pre-soak the surface for several hours prior to grouting to reduce the absorption of the substrate. Remove excess freestanding water on the surface prior to grouting.

The area to be grouted must be enclosed with good quality rigid watertight formwork. The formwork should be constructed with enough room to use a grout header box system. The formwork must be able to rigidly confine the DUNLOP GENERAL PURPOSE CONSTRUCTION GROUT until it has enough strength to be removed depending on the application. It is recommended to use an appropriate form release agent. Formwork should be flushed out just prior to application.

MIXING

	Dry Pack	Plastic	Flowable
Water Ratio	12-14% water (2.4- 2.8L)	14-17% water (2.8L- 3.4)	17-20% water (3.4- 4.0L)

The mixing ratio can be varied to achieve the right consistency for the job which can vary from a stiff hand packable consistency to a flowable consistency. Always ensure that the DUNLOP GENERAL PURPOSE CONSTRUCTION GROUT powder is added to the water during mixing. Use an appropriate electric type mixer according to your application and consistency as hand mixing is not suitable. Allow for approximately 3 minutes of mixing to achieve optimum mix results. The mix should be used immediately and has a pot life of 20 minutes. After this time, discard any mix that

shows signs of stiffening. Do not remix. It is strongly recommended that a small trial batch is tested to determine the best mix consistency for the project at hand.

Do not apply in temperatures below 10°C or above 35°C.

COVERAGE

	Dry Pack	Plastic	Flowable
Yield L	9.5	10.3	10.9
Kg/m ³	2350	2260	2200
Bags per m ³	92	89	86

CURING & STRENGTH

For dry pack and plastic application, the product must cure thoroughly by keeping it wet and covered with plastic sheets for at least 7 days. Upon removing the plastic sheets, it is recommended to apply an appropriate curing compound. For flowable mix, it is very important to prevent moisture loss during the early plastic state prior to setting. Apply an appropriate curing compound after final set on all exposed areas as well as immediately after striking the form.

	Dry Pack	Plastic	Flowable
Initial Set	30mins	2-4 hrs	4-6hrs
Final Set	30 mins – 1 hr	3-5 hrs	5-7 hrs

	Dry Pack	Plastic	Flowable
MPa 1 Day	≥ 34MPa	≥ 25MPa	≥ 15MPa
MPa 7 Days	≥ 60MPa	≥ 50MPa	≥ 35MPa
MPa 28 Days	≥ 70MPa	≥ 60MPa	≥ 40MPa

PRECAUTIONS

DUNLOP GENERAL PURPOSE CONSTRUCTION GROUT is not to be used as a tile grout. Do not add additional water to the specified amount. Apply grout in a continuous operation, even in large areas. DUNLOP GENERAL PURPOSE CONSTRUCTION GROUT is suitable for applications between 10mm and 100mm. Keep unrestrained areas to a minimum as this will reduce the final compressive strength of the mix and may result in cracking. Cure time and set will be extended when applied at lower temperatures and accelerated at higher temperatures. Substrate and ambient



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temperature must be a minimum of 10°C and should not exceed 35°C. Large and/or deep volumes of grout can generate excessive heat whilst hardening. This may lead to thermal cracking. More mixing water will increase flow but reduce strength. Entrapping air must be avoided during mixing and application. This product is not meant for structural repair and applications where vibration is anticipated.

SHELF LIFE

DUNLOP GENERAL PURPOSE CONSTRUCTION GROUT has a shelf life of 12 months when stored in the original unopened packaging, in a dry place at 23°C and 50% relative humidity.

CLEAN UP

Clean all tools in water immediately after use.

SAFETY DATA

This product may cause irritation and an allergic reaction to the skin. It may cause serious eye injury and irritation to the respiratory system. In case of contact with the eyes rinse with running water (15 mins) including removal of contaminated clothing. Wear protective gloves, clothing, eye and face protection. Avoid inhaling dust/fume/gas/mist/vapours/spray.

Ensure adequate ventilation during mixing and application. Store locked up. Check with your local Council regarding the disposal of contents. Keep out of the reach of children. Call the Poisons Information Centre on 131 126 (AUS) and 0800 764 766 (NZ) or call a doctor if you feel unwell.

Additional information is in the Safety Data Sheet (SDS) at www.dunlopdii.com.

DISCLAIMER

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standard, our instructions and recommendations and only for the uses they are intended. Users are advised to confirm that this product is suitable for their application and conforms with the specifications of the system being employed and other products in that system. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

This datasheet was issued in August 2018 and is valid for 3 years, unless a new updated sooner. Always refer to www.dunlopdii.com for the latest technical data from ARDEX Australia Pty. Ltd.