

PRODUCT DATA SHEET

DINGO STRUCTURAL GROUT



Dingo Structural Grout is a high-strength, Class A structural grout designed with shrinkage compensation, self-leveling properties, and a formulation that enables the attainment of high early strengths with minimal water addition.

Product Uses:

Designed for securing anchor bolts.	 Appropriate for machine foundation applications.
Suitable for filling cavities, gaps, and recesses.	 Well-suited for use with bridge bearings and ideal for rail beds.
Possesses high-strength characteristics.	 Reliable for reinforcing columns in precast construction.

Product Advantages:

 Offers high strength with adjustable consistency. 	Resistant to impact and vibration.
 Maintains good dimensional stability. 	 Considered non-toxic and non-corrosive.
 Demonstrates outstanding flowability. 	 Does not exhibit bleeding.

Product Data:

Form/Colour	Powder / Grey
Available in	10 kg bags
Product mix	Cement, selected aggregates, and special additives
Shelf life	12 months if stored properly in unopened, original packaging
Storage conditions	Dry, cool, shaded place
Density	1.60 kg/ltr (bulk density of powder)
	2.20 kg/ltr (density of fresh grout)

DINGO STRUCTURAL GROUT - JAN 2024



Dmax: 5.0 mm
1.2 – 1.5L of clean water per 10kgs bag
Approximately 190 bags per 1m ³
10 kg of powder yields approximately 5.25L of grout
10mm Min – 100mm Max
250 - 320mm (Flow table spread)
5 °C Min - 35 °C Max
5 °C Min - 35 °C Max
30 minutes at +20°C

Technical Data:

Compressive Strength (MPa)

Consistency	Water Addition	1 Day	7 Days	28 Days
Dry Pack	1.2L	≥ 40	≥ 60	≥ 70
Plastic	1.3L	≥ 25	≥ 50	≥ 60
Flowable	1.5L	≥ 15	≥ 40	≥ 50

Flexural strength (MPa)

1 Day	≥ 04 MPa
7 Days	≥ 07 MPa
28 Days	≥ 10 MPa

Setting Time

Initial Set:	3.5 hours
Final Set:	4.5 hours

Expansion: $\geq 0.1 \%$

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Application Instructions:

Surface Preparation Instructions

Removal of damaged, weak or deteriorated concrete is essential to creating a sound foundation and should be done so using suitable methods. Concrete must be free of all contaminants such as dust, loose particles or any substances that might impede bonding or hinder the ability to absorb repair materials.

For optimal results, pre-soak the surface a few hours prior to grouting to reduce the absorption of the substrate. Remove any freestanding water that may be left on the surface before grouting.

For steel reinforcement applications, remove all materials that could reduce the bonding process or cause further corrosion, such as concrete and mortar remanence, scale and rust. Utilizing high-pressure water-blasting or sandblasting techniques for removal will provide the strongest bond possible.

Mixing Instructions

Gradually add the powder to the pre-measured, clean water (starting with the minimum water amount) to achieve the desired consistency. Mechanically blend the mixture at a slow pace for a minimum of 3 minutes using a low-speed electric drill (maximum 500 revolutions per minute) with a disc agitator attached, until it reaches a smooth texture. Alternately, you can use mixing equipment like a two-armed mixer or a forced-action basket/pan-type mixer. It's important to note that this product should NOT be mixed by hand. If the mixture isn't to the desired consistency, additional water can be added but be sure not to overwater the mixture. Only add the max amount of water that is recommended.

Note: It is recommended to mix a small test batch to confirm the optimal mix ratio for working consistency based on current environmental conditions, particularly temperature. Warmer conditions will cause the mix to harden quicker than in cooler conditions.



Instructions To fully benefit from plastic expansion, ensure that Dingo Structural Grout is placed within 5 minutes of mixing. Keep the material well-agitated in the mixer during this time. Any grout mix showing signs of stiffening after this period should be discarded. Its consistency can range from thick cream to smooth plastic. For flowable Dingo Structural Grout, you can use low-pressure cement grouting equipment or hand rodding for confined sections. Properly vent high points to allow entrapped air to escape. For large grouting installations, Dingo Structural Grout can be pumped. For plastic Dingo Structural Grout can be rodded into place or trowel-handled where freedom of movement allows. For dry pack Dingo Structural Grout, press or ram it firmly into place. The consistency should allow firm pressing into a hard ball without cracking. Avoid vibrating it into position to prevent mix segregation.

Aggregate Addition:

To accommodate pours exceeding a depth of 100mm, you can include 10mm washed coarse aggregate in Dingo Structural Grout. Ensure that you do not exceed adding more than 5kg of aggregate per each 10kg bag of Dingo Structural Grout. When extending the mixture with aggregate, avoid placing Dingo Structural Grout in sections thicker than 200mm.

Curing InstructionsEnsure that the surface remains visible and protect the area from drying out at a rapid rate. Keep it moist, cover it with damp hessian, periodically spray it with water or use a curing compound as needed.

Clean-Up Immediately remove all wet material from mixing vessels and tools using clean water before product hardens.