

PRODUCT DATA SHEET

DINGO STRUCTURAL MORTAR REPAIR

Light Weight Repair Mortar, Sulphate Resistant



Dingo Structural Mortar Repair is a high performing, shrinkage compensated repair mortar. This single-component solution is polymer-modified and fortified with fibers, ensuring high-quality structural repairs.

Product Uses:

<ul style="list-style-type: none">Serves as filling and repair mortar, addressing voids, honeycombed areas, and similar imperfections.	<ul style="list-style-type: none">Offers enhanced resistance to various substances, including oils, sewage, chemicals, and more, making it suitable for durable repairs.
<ul style="list-style-type: none">Ideal for swift repairs on both horizontal and vertical concrete or mortar surfaces, whether located above or below ground.	<ul style="list-style-type: none">An effective solution for repairing spalled concrete resulting from reinforcement corrosion.

Product Advantages:

<ul style="list-style-type: none">Suitable for application in layers of up to 75 mm thickness.	<ul style="list-style-type: none">Suitable for structural repairs whilst maintaining a low density.
<ul style="list-style-type: none">Includes fibers to effectively prevent the formation of micro cracks whilst demonstrating minimal shrinkage behavior.	<ul style="list-style-type: none">Exhibits resistance to the corrosive effects of sulfates.
<ul style="list-style-type: none">Holds an A1 fire rating for fire resistance.	<ul style="list-style-type: none">Suitable for application by both manual and mechanical methods.



Product Data:

Form/Colour	Powder/Grey
Available in	10 kg bags
Product Mix	Sulphate resistant cement, selected light weight aggregates and additives
Shelf life	12 months if stored properly in unopened, original packaging
Storage requirements	Store in a cool, dry and sheltered area, away from harsh weather conditions.
Mixing ratio	1.6 – 1.7L of clean water per 10kgs bag
Yield	10 kg of powder yields approximately 6.5L of mortar
Consumption	This depends on the substrate roughness and thickness of layer applied. As a guide, 15.5 kg of powder per cm thick per m ²
Density	1.75 kg/ltr (density of fresh grout)
Application depth	4mm Min – 75mm Max
Pot Life	40 minutes at 20 °C
Initial Set	5.5 hours at 27 °C
Final Set	6.5 hours at 27 °C

Technical Data:

Compressive strength ASTM C109	1 day ≥ 8 MPa 7 days ≥ 20 MPa 28 days ≥ 30 MPa
Flexure Tensile Strength	1 day ≥ 2 MPa 7 days ≥ 4 MPa 28 days ≥ 5 MPa
Adhesion Tensile Strength	≥ 1.5 MPa
Shrink Rate	700 µm/m at 20°C / 65% relative humidity at 28 days
Restrained Expansion/Shrinkage Rate	≥ 1.5 MPa
Application temperature	5 °C Min - 30 °C Max
Surface temperature	5 °C Min - 30 °C Max
Grain size	Dmax: 2.0 mm



Product Application:

<p>Surface Preparation Instructions</p>	<p>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.</p> <p>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.</p> <p>Where appropriate surface preparation has been carried out, the use of a bonding primer is usually not necessary. You have the option to create a slack using a small amount of Dingo Structural Mortar Repair and water which can be used as a scratch coat to enhance adhesion to the substrate. If using a bonding primer, we suggest you apply it to a substrate that has been wet-down, roughly 2 hours before beginning application. Ensure there is no standing water left on the substrate and follow up with the repair mortar application while the bonding primer is still wet. We advise you check the application instructions on the primer to ensure correct procedures are followed as per their recommendations. If you are using a reinforcement coating, apply the Dingo Structural Mortar Repair to a dry surface, alongside the steel reinforcement corrosion protection.</p>
<p>Mixing Instructions</p>	<p>Gradually add the powder to the pre-measured 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 Product is NOT to be hand mixed. 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. It's crucial not to mix more than you can use within 10 to 15 minutes, as the product will begin to set during this time.</p> <p>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.</p>
<p>Application Instructions</p>	<p>When applying Dingo Structural Mortar Repair manually, initiate the process by establishing a scratch coat and filling any imperfections across the substrate, ensuring thorough coverage of the entire substrate. Once this is complete, build up by layers to the desired thickness in the repair area, ensuring you are applying firm pressure to the trowel to minimize leaving voids and crevices unfilled.</p> <p>For finishing, this will be dependent on your current surface. We recommend you finish the</p>



	repair area to match the current finish. You can employ the use of a hard bristled brush once the mortar has stiffened to give a rough finish, or you have the standard option of using a float when the mixture is still wet and workable. This will help you achieve a smoother finish.
Curing Instructions	Ensure 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 Instructions	Immediately remove all wet material from mixing vessels and tools using clean water before product hardens.