

MULTI METAL JOINT 121

Quick Setting Malleable Iron Aggregate Mortar for Monolithic and repair Applications in Construction, Control and Isolation Joints

Description

MULTI METAL JOINT 121 is designed to armour joints subjected to impact and high abrasion. The product is a pre-blended iron aggregate incorporating hydraulic cements and proprietary chemicals. It provides extremely hard wearing, durable, and impact resistant joints and to areas exposed to severe abrasion and damage.

Typical Applications

- * Quick joint repairs to concrete floors in garages, warehouses, bakeries, loading bays, breweries, factories, ramps, flumes & workshops etc
- * Monolithic application to strengthen construction, control and isolation joints
- * Repairs to damaged floor surfaces

Advantages

- * High impact and abrasion resistant (8-10 times greater than high strength concrete)
- * Increased resistance to constant high point loads from steel track vehicles
- * Excellent high early strengths - reduced shutdown time.
- * Trafficable within 24 hours
- * Greater resistance to grease, oils, skydrol and fuels
- * An economic method of reconstructing and protecting construction, control and spalled joints
- * High density surface
- * No added chlorides
- * Reduces maintenance costs
- * Reduces dusting

Typical Properties

Colour:	Dark grey/ black
Aggregate:	Non-oxidizing metallic aggregate composition
Abrasion value:	8 - 10 times greater than plain high strength concrete or topping
Flash point:	Not applicable
Storage life:	Up to 1 year when stored in accordance to manufacturer's instructions.

Typical strengths of MULTI METAL JOINT 121 cured and tested in laboratory conditions at a temperature of 24° C are:

Time	Compressive Mpa	Flexural Mpa
24 hrs	40	3.8
7 days	50	6.1
28 days	85.5	8.2

Directions for Use

Procedure for New Joint and Joint Repair:

Applications

Remove concrete up to 13mm in depth immediately next to joint, tapering away towards the finished level ± 100mm width (see drawing on page 2). The procedure when applying to old hardened concrete the edge is square cut vertically 25mm from the surface of the concrete slab and the width extended 200mm from the edge of the joint. (See drawing on page 2). On a new concrete slab, wood float the prepared joint surface, then mix MULTI METAL JOINT 121 with water to achieve a mortar type consistency. Place the mixed product into the newly laid concrete joint surface in layers with each layer being compacted into the other. Level the product with the surface of the concrete slab and hand finish to required specification.

In the case of an old concrete slab, saturate the area to be repaired for 12 hours prior to application. Apply a slush coat - a mixture of MULTI METAL JOINT 121 and water to the newly exposed concrete surfaces. Mix to obtain a stiff mortar type consistency and compact product into place. Finish the joint surface to the required levels and specification.

Saw-Cut Joints: These joints should be saw-cut 24 hours after the product has been placed.

JOINT REPAIRS

Rate of Application

Note: When applying MULTI METAL JOINT 121 to an existing damaged joint and to a depth of 13mm do not re-saturate the prepared concrete surface. Use MUL TIPOXY 1305 Wet to Dry epoxy adhesive as the bonding agent and thereafter follow the standard mixing and placing instructions.

Curing

Curing should be carried out immediately the final trowelling operation has been completed. Apply MULTICURE 300 C, to the surface with a roller or paint brush.

Rate of Application

One 25kg bag yields 6 litres of finished product. (Mix 2, 3 litres of water per 25kg bag)

Packaging

Supplied in 25kg moisture-resistant bags

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Specification Clause

Monolithic Construction: MULTI METAL JOINT 121 metallic aggregate mortar as manufactured by MCC LIMPOPO. should be applied monolithically to a depth of 13mm, tapering towards the finished level + 100mm on either side of joint For total monolithic overlays the concrete base is to have a minimum compressive strength of 25 MPa and MULTI METAL JOINT 121 to be applied to a depth of 13mm in accordance with the manufacturer's detailed instructions.

Estimating Data: 7kg / linear meter for both sides of joint. Cure with MULTICURE 300C.

Topping Overlay: Existing concrete base must be scabbled to a sound and clean surface. Saturate prepared surface with water for 12 hours and then remove any free standing water. Apply a cement slurry as the bond coat. Cast MULTI METAL JOINT 121 overlay to a thickness of 25mm and width of 200mm, consolidate to levels and a finished texture as per specification and in accordance with MCC LIMPOPO's instructions Cure with MULTICURE 300 C. Alternatively follow the procedure as described when using MULTI POXY 1305 wet to dry epoxy as the bonding adhesive.

Quality Assurance

MCC LIMPOPO's production and testing programmes comply with local testing standards.

Updates:

This data sheet supersedes all previous issues prior to this date: 30/11/95.