

# MasterSeal<sup>®</sup> 915

High strength, free-flowing epoxy grout

## DESCRIPTION OF PRODUCT

The product is three component and easily mixed on site to a pourable consistency. **MasterSeal 915** is suitable for an application thickness range of 10-80mm where high flow characteristics are required. Where greater thicknesses are required, pour in two sections leaving 6 hours between each pour or consider the use of **MasterFlow 640**.

## TYPICAL APPLICATIONS

- Anchors and fixing bolts
- Crane and transporters rails
- New and old machine base plates
- Structural filling of holes and cavities in concrete
- Industrial equipment and machinery subject to static or dynamic forces
- Equipment where chemical and acid spillage occurs
- Pile cap waterproofing (at >20mm thickness)
- Steel columns for warehouses

## ADVANTAGES

- No priming required
- High tensile, flexural and compressive strength
- Excellent adhesion to steel and concrete
- Rapid installation and strength gain to ensure early commissioning of equipment
- Excellent fatigue resistance
- Compatibility with equipment subject to extensive thermal movement
- High resistance to dynamic loads and chemical attack
- Non-shrink and tolerant to damp surfaces

## TYPICAL PROPERTIES

Pot life:	at 25°C	50 minutes
Compressive strength	24 hrs	100N/mm <sup>2</sup>
BS 6319 Part 2:		
Flexural strength		40N/mm <sup>2</sup>
BS 6319 Part 3:		
Density:		2000kg/m <sup>3</sup>
Full chemical cure:	at 25°C	7 days
	at 40°C	3 days

## PACKAGING

**MasterSeal 915** is supplied in 10kg units.

## COMPOSITION

Bisphenol A epoxy resin base is a low viscosity liquid reactor which when mixed with the inert aggregate forms an easily pourable and mobile grout.

## CHEMICAL RESISTANCE

The resistance of **MasterSeal 915** to most common corrosive chemicals is excellent:

- Dilute and concentrated alkalis
- Most dilute acids
- Oil and petrol
- Ammonia
- Formaldehyde
- Saline solutions
- Mineral oil, vegetable and animal fats

## APPLICATION PROCEDURE SURFACE PREPARATION

As with all epoxy resin applications, the quality of surface preparation has a direct effect on the performance and durability of the system. Concrete surfaces should be sound, dimensionally stable, clean, free from laitance, paint, oil, grease, mould release agent and residual curing compound. Metal surfaces or components to be bedded should be free from any rust or scaling. Formwork, if used, should be wrapped in polythene to ensure a clean release.

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## MIXING:

Do not split packs or alter the ratio of resin components in any way. Mix with a slow speed drill and paddle. Add the contents of the reactor container to the base component in a suitable mixing vessel, ensuring complete transfer of both resin components.

Mix for one minute before slowly adding the aggregate and continue mixing until a flowing, pourable consistency is achieved. Do not over-mix, as that may entrain air.

## PLACING

Place immediately after mixing, into the prepared area in such a manner that it has the shortest distance to flow. For longer pours, a suitable head of pressure may be required. Ensure the area to be grouted is **not** completely sealed, and any displaced air can be expelled. Pour continuously from one end only. Allow the grout to set prior to removal of formwork (normally after 6 hours). Where placement exceeds depths of 80mm, application should be carried out in layers. The second layer is to be applied after 6 hours.

## LIMITATIONS

Do not apply **MasterSeal 915** when the contact surfaces are less than 10°C. If the ambient temperature is less than 10°C, then artificial heating may be used.

## EQUIPMENT CARE

Clean all equipment promptly with solvent. Any excess cured material will have to be mechanically removed.

## YIELD

10kg of **MasterSeal 915** will yield 5ltr.

## STORAGE

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates, the product must be stored in an air-conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

For specific storage advice, consult Master Builders Solutions's Technical Services Department.

## SHELF LIFE

Up to 12 months when stored in unopened containers according to manufacturer's instructions.

## SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product has fully cured or dried). Treat splashes to skin and eyes immediately. If accidentally ingested, seek medical attention. Re-seal containers after use. For specific storage and disposal instructions, refer to the material safety data sheet.

REQUEST AND REFER TO RECOMMENDED INSTALLATION PROCEDURES FOR <b>MasterFlow</b> EPOXY GROUTS PRIOR TO USE
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## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

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### QUALITY STATEMENT

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

\* Properties listed are based on laboratory controlled tests.

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