

# Chemical Grout Application Guide

**A Guide To MasterRoc<sup>®</sup>**  
**Injection Products By Application**



## About Master Builders Solutions

Master Builders Solutions is a leading global manufacturer of concrete admixtures, as well as other sustainable solutions for the construction industry, focussed on delivering its vision: **Inspiring people to build better.** Master Builders Solutions provides value-added technology and market-leading R&D capabilities to improve the performance of

construction materials and to enable the reduction of CO2 emissions in the production of concrete. Founded in 1909, Master Builders Solutions has ca. 1600 employees operating 35 production sites globally, supporting their customers in mastering their building challenges of today – for a decarbonised future.

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## MasterRoc® Products

### Applications

#### Properties / Details

Product	Properties / Details	Manhole, Storm Pipe and Box Culvert	Mainline Sewer Repair	Hairline Crack Injection	Wide Crack Injection	Low to Medium Water Ingress	High Water Ingress	Concrete Repair	Masonry Repair	Permeation Grouting	Pre-injection Grouting	Small Void Fill	Strata Consolidation	Void and Cavity Filling	Seawall Repair	Rock Bolt Anchor Resin	Cable Bolt Anchor Resin
<b>Acrylic Resins</b>																	
MasterRoc MP 300	Low viscosity, Very flexible gel with adjustable water to resin ratios 1:1 to 3:1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MP 300 Emulsion	Optional component used with acrylic resins (MasterRoc MP 300) for increased bond and decreased shrinkage in wet and dry cycling	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Hydrophobic One-Component Polyurethane</b>																	
MasterRoc MP 351 LV	Low viscosity, High expansion, Flexible foam, Used with MasterRoc MP 351 LV accelerator	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MP 355 1K	High expansion, Semi-rigid foam, Used with MasterRoc MP 355 1K accelerator	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MP 355 1K DW	High expansion, Flexible foam, Used with MasterRoc MP 355 1K accelerator	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Two-Component Polyurethane</b>																	
MasterRoc MP 355	Fast reaction time, Dense cured material	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MP 355 w/ Accel 10	Dense, High Foam Expansion Factor, Rapid reaction	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MP 355 w/ Accel 25	Strong foam, Low Foam Expansion Factor	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MP 358 SC	Dense, Foam Expansion Factor 3, Rapid strength gain	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Two-Component Polyurea Silicate</b>																	
MasterRoc MP 367	High Foam Expansion Factor, Fast reaction, Not water-sensitive	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MP 368	Rapid strength development, High density resin, Not water-sensitive	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MP 368 TIX	Thixotropic behavior, Not water-sensitive	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Microfine / Ultrafine Cement</b>																	
MasterRoc MP 650	Microfine cement – 2 h set time	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MP 650 SR	Sulfate resistant, Microfine cement - 2 h set time	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MP 800	Ultrafine cement – 2 h set time	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MP 800 SR	Sulfate resistant, Ultrafine cement - 2 h set time	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MP 900	Ultrafine cement – 2 h set time	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MP 900 SR	Sulfate resistant, Ultrafine cement - 2 h set time	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Colloidal Silica</b>																	
MasterRoc MP 325	Ultra low viscosity, One-component mineral grout	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Rock Bolting</b>																	
MasterRoc RBA 380	Two-component thixotropic resin, Rapid strength	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc RBA 384	Thixotropic resin with extended setting time, Rapid strength gain, Suitable for hot weather applications	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc RBA 387	Extremely fast-reacting thixotropic resin, Rapid strength gain, Suitable for cold weather applications	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc MG 10 NA	High yield, Thixotropic non-shrink grout	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Chemical Grouting Accessories</b>																	
MasterRoc MP 231 CLN	Pump cleaner	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc FLC 100	Powdered rheoplastic additive for nonshrink cement grout	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc EQ 250 OR	Oakum rope, 2 in. (50 mm) diameter	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc EQ 512 PK	Mechanical packer for high pressure chemical grout, 1/2 in. (13 mm) diameter	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc EQ 538 PK	Plastic happer-in port for low pressure chemical grout, 3/8 in. (10 mm) diameter	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
MasterRoc EQ 558 PK	Mechanical packer for high pressure chemical grout, 5/8 in. (16 mm) diameter	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

This guide shows the relative performance and properties of MasterRoc injection products. Depending on the jobsite conditions, the performance obtained may be different from the performance shown in this guide. Contact your local sales representative for additional information on the performance of Master Builders Solutions MasterRoc line of products.