Chemical Grout Application Guide

A Guide To MasterRoc® Injection Products By Application
# Chemical Grout Application Guide

## MasterRoc® Products

### Acrylic Resins
- **MasterRoc MP 300**
  - Low viscosity, Very flexible gel with adjustable water to resin ratios 1:1 to 3:1
- **MasterRoc MP 304**
  - Low viscosity, Very flexible
- **MasterRoc MP 307 CE**
  - Low viscosity, Adjustable setting time, Rubber-like
- **MasterRoc MP 309**
  - Low viscosity, High compressive strength

### Hydrophobic One-Component Polyurethane
- **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

### Two-Component Polyurethane
- **MasterRoc MP 365**
  - Fast reaction time, Dense cured material
- **MasterRoc MP 365 w/ Accel 10**
  - Dense, High Foam Expansion Factor, Rapid reaction
- **MasterRoc MP 365 w/ Accel 25**
  - Strong foam, Low Foam Expansion Factor
- **MasterRoc MP 359 SC**
  - Dense, Foam Expansion Factor 3, Rapid strength gain

### Two-Component Polyurea Silicate
- **MasterRoc MP 368**
  - Rapid strength development, High density resin, Not water-sensitive
- **MasterRoc MP 367**
  - High Foam Expansion Factor, Fast reaction, Not water-sensitive

### Microfine/Ultrafine Cement
- **MasterRoc MP 650**
  - Microfine cement - 2 h set time
- **MasterRoc MP 300**
  - Ultrafine cement - 2 h set time

### Colloidal Silica
- **MasterRoc MP 325**
  - Ultra-low viscosity, One-component grout

### Rock Bolting
- **MasterRoc RBA 380**
  - Two-component thixotropic resin, Rapid strength
- **MasterRoc RBA 387**
  - Extremely fast-reacting thixotropic resin, Rapid strength gain, Suitable for cold weather applications

### Chemical Grouting Accessories
- **MasterRoc MP 230 CLN**
  - Pump cleaner, Equipment preservation agent
- **MasterRoc MP 304 Part B**
  - Optional component used with acrylic resins (MasterRoc MP 300, MP 304 and MP 307 CE) for increased bond and decreased shrinkage in wet and dry-cycling
- **MasterRoc FLC 100**
  - Powdered rheoplastic additive for nonshrink cement grout
- **MasterRoc EQ 512 PK**
  - Mechanical packer for high pressure chemical grout, 1/2 in. (13 mm) diameter
- **MasterRoc EQ 558 PK**
  - Mechanical packer for high pressure chemical grout, 5/8 in. (16 mm) diameter
- **MasterRoc EQ 250 OR**
  - Oakum rope, 3 in. (75 mm) diameter

### Applications

- Storm Pipe and Box Culvert Repair
- 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
- Cavity Filling
- Rock Bolt Anchor Resin
- Cable Bolt Anchor Resin

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.
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