

## Prime Flex 900 MV

Hydrophilic, water-activated polyurethane grout

### Description

Prime Flex 900 MV is a single-component, medium viscosity polyurethane injection resin that reacts with water and expands to form a closed cell, watertight flexible foam. 900 MV is used to seal medium to wide actively leaking joints and cracks in concrete structures. Material is typically injected under pressure through injection ports.

### Advantages

- Single-component; no catalyst or accelerators needed
- Pump material straight out of the pail
- Extremely tough and flexible. Can expand and contract parallel to the crack in varying temperatures.
- Up to 600% expansion (unconfined)
- Medium viscosity for wide cracks, joints and defects

### Applications

- Water treatment tanks
- Pipe joints and penetrations
- Dams, tunnels
- Culvert and other precast joints
- Underground concrete walls
- Foundation and basement walls
- Lift service pits
- Manholes

### Technical information

Properties will vary depending upon site conditions, application method, mixing method and equipment, material temperature, and curing conditions.

Typical Properties @ 23°C- Liquid	Results	Test Method
Viscosity	650-700 cps	ASTM D 1638
Solids content	93%	

Typical Properties - Cured	Results	Test Method
Tear resistance	0.0097 kN-m	ASTM D3574
Elongation	410%	ASTM D3574
Tensile Strength	3.03 MPa	ASTM D3574
Shrinkage	Less than 2%	ASTM D1042/ D756
<b>Reaction Times @ 23°C based on 2:1 ratio of resin to water</b>		
Initial reaction	30 seconds	
Full rise	1 minute 50 seconds	
Full cure	24 hours	

### Mixing Ratio

Uses available water to initiate reaction. Inject as a single component or twin stream 2 parts resin to 1 or 2 parts water.

### Application Instructions

Store material overnight to precondition to between 15 and 25°C prior to use. It is not necessary to pre-mix Prime 900 MV prior to use.

Flush injection equipment with Prime Flex Eco Flush. Remove cured material by soaking in Prime Flex CGC (not appropriate for contact with plastic).

### Packaging

Packaged under a dry nitrogen blanket  
Pack size: 18.9 L

## Storage

Store in dry environment between 4-27°C. Do not allow product to freeze. Protect from moisture.

The shelf Life of Prime Prime Flex is 18 months from date of manufacture when stored correctly in unopened containers

## Limitations

Cold temperatures will slow down reaction time and increase viscosity. pH below 3 or above 10 may adversely affect foam properties.

## Health & Safety

Product Safety Data Sheets (SDS) are available from Nufins. SDS sheets are provided to help customers satisfy their safe handling, use and disposal needs as well as assist with any conformance requirements made locally by health and safety regulations.

SDS are continually updated to provide the latest information to our customers. We therefore recommend contacting our head office to obtain the most recent and accurate SDS before handling and using any product.

## Technical Support

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors. Technical contacts are available to provide further information and arrange demonstrations.