

## High Build Epoxy Mortar

### DESCRIPTION

TamRez 90 is a non-solvent based, three-component high-build epoxy repair mortar, designed for structural repairs to both vertical and overhead applications. TamRez 90 is moisture tolerant achieving excellent adhesion to both dry and damp substrate surfaces.

### KEY BENEFITS

- › High strength
- › Easy to apply and finish under a wide range of conditions
- › Suitable for vertical and overhead applications
- › Moisture tolerant
- › High strength
- › Non-shrink
- › High adhesion to both dry and damp substrates

### TYPICAL APPLICATIONS

- › Repair for overhead and vertical applications
- › Repair to spalled roads and runways
- › Repair to stair nosing
- › Repair to pre-cast elements

### PACKAGING

The standard pack size is a 32.5 kg pack.  
[Contains 5 kg of Part A, 2.5 kg of Part B & 25 kg of Part C]

Other packaging options may be available from your local Normet representative.

### STORAGE

TamRez 90 should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of twelve months can be expected.

### HEALTH & SAFETY

TamRez 90 should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.

### APPLICATION GUIDELINES

#### PREPARATION OF SURFACES

As with any epoxy resin system, surface preparation is critical. Concrete surfaces or cracked sidewalls to which this product is to be applied should be cleaned by air or water. This will ensure a superior bond after the resin has cured.

Concrete surfaces, which require sealing with injection resin should be cleaned by mechanical means prior to application.

TamRez 90 is moisture insensitive and will bond to damp surfaces although dry conditions are desirable. For additional injection techniques, contact your local Normet representative.

#### CONDITIONING

Prior to injection, condition all materials at appropriate temperatures (20°C-25°C) for at least 12 hours. Any variation on this will have a significant effect on the open times and may prolong curing times.

Standard injection or application can be undertaken at ambient temperatures from 5°C to 25°C. Where ambient temperatures are above 25°C, the pot life will be reduced. Consideration should also be given to the temperature of the substrate as this will influence the resins cure time.

#### MIXING

Mix each individual liquid components using a paddle drill before use - this ensures a homogenous material.

Add the appropriate ratio of Part A to Part B in a large mixing container (plastic preferred) and mix for a further 3 minutes. Longer mixing times may be required in cooler ambient conditions. Immediately transfer to a suitable mixer, stir in the contents of Pack C, and continue mixing until a homogeneous material is obtained. Ensure that the quantity of material mixed can be used within the open time.

#### APPLICATION

Apply the mortar mix with a steel float, spatula or trowel. Use a tamping action to ram into place and compact well. Finish with a steel float to close up the surface.

#### CLEANING

It is recommended that all equipment is cleaned with TamRez Cleaner as soon as possible after use.

### RELATED PRODUCTS & EQUIPMENT

- › TamRez Primer
- › TamRez Cleaner

## TECHNICAL DATA

Physical Appearance				
	Part A	Part B	Part C	Mixed
Density [Standard] kg/L	1.1	0.95	2.5	1.65
Appearance	Clear Liquid	Yellow Liquid	Grey Powder	Grey Mastic
Volumetric Mix Ratio	2	1	10 - 12	

Physical Properties		
Non-volatiles Content [BS EN ISO 3521]	> 95%	
Capillary Absorption [EN 13057]	< 0.5kg·m <sup>2</sup> ·h <sup>-0.5</sup>	
Chloride Ion Content [EN 100715-17]	≤ 0.05%	
Pot Life (1Kg) [EN ISO 9514]	1 - 2 Hours	
Workability [EN 13395-1] [EN1015-3]	1.5 L sample 113% / 125mm	
Compressive Strength [EN 12190] 40 mm Cube	1 Day	> 85 MPa
	7 Days	> 90 MPa
Adhesive Bond [EN 1542]	≥2MPa	
Thermal Compatibility [EN13687-1]	≥2MPa	