# 3M™ Scotchkote™ Epoxy Concrete Repair 474

## (Formerly known as Grano-Tech)

## Data Sheet and Application Guide

### Product Description

Scotchkote Epoxy Concrete Repair 474 has been specifically developed as a three component 100% solids repair mortar for use on concrete surfaces.

### Product Features

- Combines good application characteristics with excellent chemical resistance.
- Designed for application by trowel or float.
- Can be used to form wall/floor covings and can be laid to falls.
- High abrasion resistance and excellent adhesion
- Unaffected by most industrial chemicals.

### Surface Preparation

Surfaces to be repaired must be clean, dry and free from contamination. All loose, spalled and eroded concrete or masonry should be removed. Any areas of exposed rebars should be primed with 3M™ Scotchkote™ Epoxy Primer GP 120. All existing coatings must be removed from the surface before any repair is carried out. Failure to do this will mean the bond is only as good as the existing coating. Thorough cleaning and roughening of any surface is absolutely essential for a successful repair.

Surfaces should then be primed with 3M™ Scotchkote™ Epoxy Concrete Mortar LW 405 Primer.

### Mixing

The primer is a two component material comprising Part A and Part B components which must be mixed together prior to use.

The mortar is a three component material comprising Part A and Part B components and an Aggregate component which must be mixed together prior to use. The Part A and Part B components should thoroughly mixed together in the outer container of the pack. After mixing continue stirring and add the total contents of the Aggregate bag, care must be taken to ensure thorough 'wetting' of the aggregate to prevent the formation of agglomerates. The use of a forced action mechanical mixer is recommended to ensure thorough and complete mixing. The mixed product must be used within 70 minutes of mixing at 20°C (68°F).

### Application Procedures

Application should not be carried out when surface/air temperatures fall below 5°C (40°F).

The mixed product should be pressed into the primed surface with a gloved hand or a trowel whilst the primer is still wet/tacky with a steel float or trowel being used to smooth the product out, with edges feathered in.

All equipment must be cleaned IMMEDIATELY after use with 3M™ Scotchkote™ Cleaner 020.

### Properties

| Property | Value |
|---|---|
| Color | Light Grey |
| Ratio | Mix as supplied |
| **Drying & Cure times at 20°C (68°F)** | |
| Useable life | 70 mins |
| Hard Dry | 8 hours |
| Full Hardness | 24 hours |
| Maximum Overcoating | 24 hours |
| Full Cure | 7 days |
| Volume Solids | 100% |
| VOC | 0 g/L |
| Film Thickness (Typical) | Wet/Dry 6 mm (240 mils) |

Note: The actual thickness to be applied should be agreed between the specifier and the manufacturer dependant on operational performance criteria and may be higher or lower than the quoted typical value.

| | |
|---|---|
| Theoretical Coverage Rate | 0.09 $m^2$/kilo at 6 mm dft<br>(1.0 ft2/kilo at 240 mils dft) |
| Abrasion Resistance | 145 mgm weight loss per 1000 cycles, CS17 wheel 1kg load ASTM D4060 |
| Impact Resistance | 1.8 joules (16 ins/lbs) ASTM D256 |
| Compressive Strength | 880 kg/cm2 (12500 psi) ASTM D695 |

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