

EMACO[®] T920

Cementitious high strength rapid setting trafficable repair mortar

DESCRIPTION

EMACO T920 is a high strength, shrinkage compensated mortar for the repair of concrete surfaces in both new and existing construction. Highly workable, this multi-purpose pea gravel mortar handles easily at 100mm slump and possesses excellent working time and superior performance.

RECOMMENDED FOR

- Floor repair and overlay
- Pavement repair
- Traffic surface repair
- Repair to structural members including pre-stressed and post-tensioned elements

FEATURES AND BENEFITS

- **High ultimate strength**
- **Increased abrasion resistance (up to twice that of normal concrete)**
- **Pre-packaged and proportioned material**
- **Extended working time aids the finishing and/or enables the application of dry shake finishes**
- **Shrinkage compensated**

When **EMACO T920** mortar is used to patch concrete, the repairs will be more durable than those made with conventional patching materials. The life of the repair is primarily limited by the degree and extent of surface preparation.

NOTE: Feather edging of repairs should be avoided, as this will compromise the durability.

PERFORMANCE DATA

Compressive Strength	24 hours	45 MPa
	3 days	65 MPa
	7 days	75 MPa
	28 days	85 MPa
Flexural Strength	7 days	9 MPa
	28 days	9 MPa
Modulus of Elasticity	7 days	30 GPa
	28 days	38 GPa
Electrical Resistivity	56 days	27900 Ohm cm
Expansion		+ 0.001 - 0.01%

Pot Life

EMACO T920 has a working time of approximately 60 minutes at 20°C.

The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

Specifications

Supply form	grey powder
Granulometry	max. 7mm
Layer thickness	25 to 200mm
Water addition	1.7L-1.9L/20kg bag
Specific gravity mixed	2.1 - 2.3
Minimum temperature (ambient and substrate)	7°C

ESTIMATING DATA

Approximately 2.0kg of **EMACO T920**, mixed and placed as recommended, is required per m² at 1mm thickness.

APPLICATION

Substrate condition

Surfaces to be repaired, should be taken back to expose sound course aggregate and be free from oils, grease and other contaminants. To obtain permanent type repairs, the edge of the patch should be square cut to a depth of not less than 25mm. Remove all dust and debris and saturate the surface with water to achieve a saturated surface dry condition. Surface water should not be present.

Mixing

Add 1.8 litres of clean water to a clean pail and whilst mixing slowly, add the **EMACO T920** powder. Continue to mix for a further 3-4 minutes until the mortar is homogeneous and lump free.

Priming

For floor and slab applications, the surface should be primed with a slurry made from the **EMACO T920** and water and then brushed into the surface. Do not allow the primer to dry. Application must proceed 'wet on wet'. Where the primer is allowed to dry a fresh prime coat must be applied before proceeding.

Application

For floor slab and pavement repairs, mix, place, screed, float and finish the mortar to the desired surface texture. Where a higher workability is required, **Rheobuild 1000** may be added – refer to your local BASF Technical Representative. For vertical surfaces where forms will retain the mortar, place behind the forms and thoroughly consolidate the mortar. The mortar may also be pumped and placed by a **Meyco Deguna**. Refer to BASF Construction Chemicals for more data.



The Chemical Company

EMACO[®] T920

CURING

All cementitious mortars and concrete have to be protected against too rapid evaporation. Freshly applied patches should therefore not be exposed to direct sunshine or wind.

Proper curing is essential. Cover **EMACO T920** with plastic sheeting or apply an approved curing compound, such as **MASTERKURE 404** at the rate of 5m²/L and in accordance with label directions, as soon as possible without marring the finished surface. Freshly applied **EMACO T920** should be protected from rain or other incidental damage until fully set.

CLEANING

Uncured **EMACO T920** may be removed using water. Cured material may only be removed mechanically.

PACKAGING

EMACO T920 is packaged in 20kg moisture resistant bags.

SHELF LIFE

EMACO T920 can be stored in tightly sealed original bags for 12 months if kept dry and at moderate temperatures.

PRECAUTIONS

- **EMACO T920** mortar provides excellent working time in warm environments. With cool or cold temperatures, the use of warm water will minimise finishing time.
- **EMACO T920** cannot be recommended for:
 - Precision grouting applications
 - Wheeled traffic areas where the mortar must be feather edged (square-cutting of such repairs is recommended).
 - Areas where **EMACO T920** mortar will be exposed to acids or other chemicals, which attack plain concrete.

EMACO T920 is not toxic, but as with other materials containing Portland cement, it has an alkaline nature and thus can be irritating to skin and eyes.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals **Material Safety Data Sheet (MSDS)** from our office or our website.

AEmT920/10/1011

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

BASF Australia Ltd
A.B.N. 62008437867
Head Office: 11 Stanton Road Seven Hills, NSW 2147
Ph. (02) 8811 4200

Newcastle	(02) 4961 3819
Canberra	(02) 6280 6010
Brisbane	(07) 3633 9900
Townsville	(07) 4774 7344
Melbourne	(03) 9549 0300

Adelaide	(08) 8139 7500
Perth	(08) 9366 2600
Darwin	(08) 8984 3269
Kalgoorlie	0417 772 355

BASF New Zealand Ltd
BASF WEB SITES

Head Office: 45 William Pickering Drive, Albany, Auckland Ph: (09) 414 7233
www.basf-cc.com.au www.basf-cc.co.nz www.meyco.basf.com