

## PRODUCT DESCRIPTION

**PlekoMortar EP22** is a high-performance, solvent-free, non-slumping epoxy mortar and adhesive. It is designed for use as a bedding mortar, thixotropic adhesive, and non-sag repair mortar for concrete applications. **PlekoMortar EP22** offers excellent bonding strength and workability, making it ideal for structural repairs and bonding where a durable, high-performance solution is required.

## USES

**PlekoMortar EP22** is suitable for a wide range of structural and repair applications, including:

- Rapid structural repair of damaged concrete elements
- Horizontal, vertical, and overhead repairs of surface defects in concrete
- Bonding dowels, bolts, and anchors into concrete substrates
- Bedding of steel bridge bearings or bridge beams
- Securing injection ports for use with injection resins
- In-situ repair of concrete posts.

## PACKAGING

6Kg kit

## COVERAGE

A 6 kg kit of **PlekoMortar EP22** yields approximately 3.24 litres of mixed material.

## PROPERTIES

- **Excellent adhesion to concrete surfaces enables fast and durable concrete repairs**
- **Solvent-free formulation ensures low VOC emissions and non-shrink performance**
- **Supplied in pre-measured kits to eliminate job site mixing errors**

- **Can be applied directly without the need for a primer, ensuring ease of use**
- **High resistance to abrasion, impact, and chemicals, making it ideal for demanding environments**
- **Cures effectively even at low temperatures, allowing for use across a wide range of conditions**

## TECHNICAL DATA

Property	Value
Supply Form Part A	Paste (Grey color)
Supply Form Part B	Liquid (Amber color)
Mixed Form	Paste (Grey color)
Mix Ratio	100:75 pbw
Mix Density	1.85 Kg/L
Application Temperature	15 °C – 35 °C
Compressive Strength @ 25 °C (BS 6319 part 2)	40 MPa @ 1 day
	65 MPa @ 7 days
Flexural Strength @ 25 °C (ASTM C 580 part 7)	20 MPa @ 7 days
Tensile Strength @ 25°C (BS 6319 Part7)	10 MPa @ 7 days
Pot Life	50 minutes @ 25 °C
	30 minutes @ 40 °C
Recoat time	8 hrs @ 25 °C
	6 hrs @ 40 °C
Bond strength	>2 MPa (Concrete Failure)
Setting time	12 hours @ 25°C
Meets the requirements of ASTM C881 Type 1 Grade 3 Class B & C	

## CHEMICAL RESISTANCE

**PlekoMortar EP22** resists most common diluted organic and inorganic acids, as well as to alkalis, water, oils, and grease. Its chemical resistance performance depends on factors such as the type of chemical, concentration, temperature, and exposure duration. Maintaining good housekeeping practices, such as promptly cleaning up any spills, will significantly enhance the product's service life in chemically aggressive environments.

## INSTALLATION

### SUBSTRATE PREPARATION

Ensure all surfaces are clean and free from contaminants such as grease, oil, dust, curing compounds, mould release agents, or any material that may hinder adhesion. Laitance should ideally be removed by light abrasive blasting or hydro-jetting, while small areas may be treated using mechanical wire brushing. Any spalled or damaged concrete must be cut back to sound substrate and repaired using **PlekoMortar EP22**.

Conventional curing compounds must be completely removed prior to application.

### MIXING

Accurately proportion the components and mix only the amount that can be applied within 30 minutes. Stir Part A thoroughly before adding Part B, then blend both components using a slow-speed mixer equipped with an appropriate mixing paddle until a uniform consistency is achieved.

### APPLICATION

**PlekoMortar EP22** can be applied evenly across the prepared surface using a trowel or spatula. If multiple layers are required, apply subsequent coats within 30 to 45 minutes while the surface remains tacky. For a smoother finish, it is recommended to use a trowel lightly moistened with a suitable solvent.

## CURING

Curing time for **PlekoMortar EP22** depends on ambient temperature, as well as the amount of material mixed and applied. At 23°C, the product reaches full cure within 7 days.

## STORAGE

**PlekoMortar EP22** should be stored in its original, tightly sealed containers in a cool, dry, and well-ventilated area. When kept under moderate temperature conditions, the product remains stable and usable for up to 12 months from the date of manufacture

## HEALTH AND SAFETY

For complete information on health, safety hazards, and guidance on the safe handling and use of **PlekoMortar EP22**, please refer to the Material Safety Data Sheet (MSDS).

### Attention

This product is intended for use by qualified professional contractors, as a component of a larger construction system and specification. It should be installed in accordance with given instructions and specifications. Information listed above reflects the criteria for our internal quality test and practical experience. Results depend on listed instructions and consumer skills and are therefore out of our responsibility whether expressed or implied. All values are valid for the product when dispatched from the plant. Technical data are generated under laboratory conditions, some variations are expected due to weather, site, and application conditions which are beyond the control of the manufacturer. We reserve the right to change any given specification without notice.