

EDEN LATEX

Advanced Water resisting Cementitious Plastering Bonding Latex

PRODUCT DESCRIPTION

EDEN PLASTER LATEX is an advanced revolutionary, High-grade viscous acrylic plaster modifying and bonding agent/admixture. It can be employed for used where finer plaster surface finishing is required. EDEN PLASTER LATEX improves to a great extent the abrasion resistance of plaster while making plasters more significantly water tight, thanks to its specially formulated water-resistant latex polymers. EDEN PLASTER LATEX can reduce the need for cement up to 30% when plastering and reduces plaster crack occurrence up to 75%, thus making a more excellent plastering finish. EDEN PLASTER LATEX improves the tensile, flexural and bond strengths, of plasters while inducing good flexibility and improved workability of plastering mortars.

SPECIAL FEATURES

- ✚ Proven record of performance
- ✚ Earlier hardening
- ✚ Savings on cement requirement up to 30%.
- ✚ Better workability
- ✚ Reduced drying shrinkage up to 70%
- ✚ Improved plaster bonding/adhesion strength
- ✚ Prevents bleeding
- ✚ Lowers water-cement ratio
- ✚ Improves water resistance.
- ✚ Compatible with all cement types.
- ✚ Suitable for interior and exterior applications.
- ✚ Improved Shrinkage Compensating abilities.
- ✚ Improve crack resistance and bridging properties.
- ✚ Excellent adhesion to a wide range of substrates.
- ✚ Improved abrasion resistance, and increased durability and toughness.
- ✚ Helps to bond old and new plaster together
- ✚ Non-toxic
- ✚ Similar thermal expansion and modulus properties to concrete (unlike resin mortars and primers).

WHERE TO USE

EDEN PLASTER LATEX is suitable for application in the following areas:

- ✚ Can be used to improve mortar/concrete that is used in resurfacing and repairing concrete floors and walls.
- ✚ Can be employed for use in spalled concrete repairs, and plastering.
- ✚ It is widely used on highway, fly-over, and in plastering concrete constructions on the sea, new and old buildings.
- ✚ Can be used in modifying plasters for structures

such as basements, lift pits, inside tanks, and swimming pools waterproofing, where resistance to mild chemical such as alkalis, dilute acids, milk, sewage effluent, mineral oil, is required.

- ✚ It can be used on above or below grade, internal or exterior cementitious surfaces.
- ✚ Direct Plaster on Plaster Bonding application and to new and old concrete or masonry surfaces.
- ✚ Can modify preformulated plastering mortars.
- ✚ Can be used as a substrate primer for plastering prior to application.
- ✚ Modifying concrete that are used as underlay for special finishes and where concrete efflorescence reduction/resistance is required.

APPLICATION PROCEDURE

Stage-1: SURFACE PREPARATION & INVESTIGATIONS

A - Pre Substrate Investigation

- ✚ To further ensure durability and efficiency of membrane / concreting performance, substrate should possess a minimum compressive strength of at least 25MPa, and a cohesive bond strength of at least 1.5MPa.
- ✚ Check substrate for the presence of old loose coatings, dirt, fats, oils, organic substances, existing membranes and dust. In any case of the existence of the above listed, adequate surface preparatory measures should be employed such as surface grinding by means of a grinding machine.
- ✚ Ensure new concrete structures is cured for at least 28 days.
- ✚ All visible surface irregularities and indentations need to be smoothed and evened out using EDEN reprofiling range of mortars

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B - Surface Preparation

- ✚ Careful surface preparation is essential for optimum finish and durability thus, surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane/concrete. In order to achieve this, concrete surface must be mechanically profiled and prepared by shot blasting, sandblasting, water-jetting, scarifying, diamond-grinding or other engineering-approved method.

C - Post Substrate Preparation Investigation

- ✚ Any uneven or visibly loose pieces needs to be chipped off and perfected using EDEN reprofiling range of mortars to achieved an excellent smooth finish.
- ✚ Thoroughly remove any evidence of grinding dust Observed.

Stage 2 – (Mixing)

Take care to thoroughly pre-mix the sand/aggregate or gravel with the cement then add EDEN PLASTER LATEX to the mix while stirring slowly. In order to obtain a smooth consistency mortar, the cement and sand must be dry mixed and then poured into the liquid with the required amount of water in the prescribed/recommended mix proportions as stated above.

Stage 3 (Application)

As a substrate Bonding agent/primer

- ✚ Apply the now thoroughly mixed Plaster Slurry onto the prepared substrate.
- ✚ The mixed plaster mortar/topping should be applied whilst the primer is still tacky.
- ✚ Sufficient bond strength can be achieved up to 15-20 minutes after application at 25°C - 30°C.

RECOMMENDATION:

Before Use

It is recommended that product is stirred well before using for at least 2-3 min. Check product seal to ensure it is unbroken or fake. Consult customer support should any concern arise for clarity and Technical support.

General

- ✚ Immediately before priming, the concrete substrate should be thoroughly dampened with water and any excess being brushed off.
- ✚ Re-coat as observed when required and tacky as multiple layer or higher coating thickness would produce higher strength when finally cured.

DOSAGE

Approximately 1.5liter (minimum) - 2liter (maximum) / Bag of cement

CAUTION

- ✚ Ensure container used for mixing are clean and dry.
- ✚ Use of wet aggregate may result in excessive workability.
- ✚ Variation in cement used and workability can give increased strengths.
- ✚ Protect EDEN LATEX from direct sunlight
- ✚ EDEN LATEX is recommended for use only as described in the Uses section of this data sheet.
- ✚ Be careful to observe written instruction on all technical documents for this product such as *Safety Data Sheet, Method Statement Data Sheet, Technical Data Sheet, and Test Certificate Results.*
- ✚ Application in cooler temperatures may require extra curing time and in higher temperature can experience accelerated curing.

BASIS OF PRODUCT DATA

- ✚ All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.



TECHNICAL PROPERTIES

<i>Packaging</i>	5kg, 20kg	<i>Concealed unit if stored properly in original, unopened and undamaged sealed packaging.</i> <i>Viscous</i> <i>ASTM C109 (Observing good concreting practice)</i> <i>ASTM C190 (Observing good concreting practice)</i> <i>ASTM C-882)</i>
<i>Shelf life</i>	12 months minimum from date of production	
<i>Appearance</i>	Whitish liquid	
<i>Solid content by weight</i>	~ 49 %	
<i>Spg</i>	~1.2	
<i>Compressive strength</i>	≥19MPa @ 3days	
<i>Tensile strength</i>	≥3.7MPa @ 7days	
<i>Substrate Temperature</i>	+5 °C min. / +35 °C max	
<i>Bond strength</i>	3.9MPa	
<i>pH</i>	5.1 - 6.6	
<i>Chloride content</i>	Nil	

APPLICATION INFORMATION

<i>Initial bond strength time</i>	15-20 minutes	<i>Dependent on application rate, effective sunlight accessed to the area and puddle concentrations.</i> <i>Protect from direct sunlight and frost</i>
<i>Initial bond strength temp</i>	25°C - 30°C.	
<i>Storage condition</i>	Store in dry conditions in original packaging at temperatures between +5 °C and +30 °C.	
<i>Mixing Methodology</i>	Mechanical	
<i>Application Tools</i>	Brush or Trowel or as appropriate	
<i>Ambient Air Temp</i>	+5 °C min. / +40 °C max.	

ECOLOGY HEALTH AND SAFETY

Information on the safe handling, storage and disposal of chemical products, user is advised to refer to the most recent/updated *Safety Data Sheet, Method Statement Data Sheet, and Technical Data Sheet*, containing physical, ecological, toxicological and other safety/handling/storage related data.

CLEAN UP

Wash hands and tools with EDEN super cleaner or any of

EDEN recommended cleaning products promptly, before the material hardens. Cured material must be mechanically removed.

TECHNICAL SUPPORT

AISE-OHIS EDEN CONSTRUCTION (CHEMICAL) Ltd provides a technical advisory service supported by a team of specialists in the field.



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STORAGE AND SHELF LIFE

- ✚ EDEN LATEX can be stored 12 months minimum from date of production if stored properly in original, unopened and undamaged / sealed packaging.
- ✚ EDEN LATEX is supplied in 5kg, & 20kg buckets.
- ✚ Storage area should be free from moisture and direct sunlight.
- ✚ Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, and batch number and application precaution labels.

STANDARD COMPLIANCE

Conforms to the requirements of ASTM C1059

HEALTH & SAFETY

- ✚ Please ensure that hand gloves and goggles are worn during installation.
- ✚ Apply in ventilated areas, away from flames
- ✚ It is only important that during application and after application, standard safety procedures are done.
- ✚ Please consult current MSDS for product.

✚ For Professional Use only.

ADDITIONAL INFORMATION

AISE-OHIS EDEN CONSTRUCTION (CHEMICAL) Ltd manufactures a complete range of construction chemical products which include:

- ✚ Cementitious Waterproofing membrane
- ✚ Acrylic Waterproofing membrane
- ✚ Polyurethane Waterproofing membrane
- ✚ Bituminous Waterproofing membrane
- ✚ Flooring solution
- ✚ Damp-Proofing products
- ✚ Repair and refurbishment systems
- ✚ Water-stop
- ✚ Cleaning agent
- ✚ Bonding agent
- ✚ Decorative / Repair mortars
- ✚ Tile adhesive and grouts

For more information on any of our products, please contact AISE-OHIS EDEN CONSTRUCTION (CHEMICAL) global or regional office

LEGAL NOTE

Details contained in this Technical Data Sheet is provided in good will based on the experience and knowledge of the products been stored, handled and applied properly under normal conditions. That client will be responsible to duly follow all instruction written herein. However, Whilst Aise-Ohis Eden Construction (Chemicals) Limited endeavors to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. Therefore, user is mandated to check/test product's suitability for the intended application and purpose. Aise-Ohis Eden Construction (Chemicals) Limited reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

