

EDEN DECO 15

Decorative Mortar Finish

PRODUCT DESCRIPTION

EDEN DECO 15 is a advance cementitious hybrid blend/mix of Portland cement, excellent grit sand and special additives specifically designed for plastering works on block walls, concrete surfaces, bricks and general filling up internally and externally. EDEN DECO 15 cement-based plaster mortar reinforced with special additives and polymers specifically designed for interior and exterior coating of thermal insulating plates, allowing easy application, resistant to water and impact. It is designed with special additives and polymers specifically aimed for interior and exterior use. EDEN DECO 15 can easily be applied once mixed to a wide range of substrate (such as concrete, masonry wall, concrete blocks, brick walls etc).

SPECIAL FEATURES

- ✚ Resistant to water, frost, moisture and severe weather conditions
- ✚ Provides an excellent flushed surface substrate for the application of further finish
- ✚ Good bond/adhesion strength owing to its polymer modified properties.
- ✚ Good tolerance to domestic chemicals such as detergents
- ✚ Minimized risk of cracking
- ✚ Suitable for use on below ground structures.
- ✚ Fast and ease to apply
- ✚ Easy and quick to mix (Powder to liquid).
- ✚ Provides anti-carbonation cover over concrete
- ✚ Can allows surface to breath.
- ✚ Good deformability and plasticity.
- ✚ Easy preparation (Pour powder to liquid).
- ✚ Adequate Fireproofing ability, durable and long lasting.
- ✚ Features quick and easy installation.
- ✚ Does not support bacterial & Fungal growth especially when adequate surface finish is observed
- ✚ Can be applied by trowel, roller and airless spray machine.

WHERE TO USE

EDEN DECO 15 is suitable for application in the following areas:

- ✚ Internal and External application
- ✚ Suitable for fillings holes and irregularities, leveling and covering ceilings during renovation work.
- ✚ Can be applied to mineral-based substrates such as gypsum boards or plastered surfaces
- ✚ Suitable for creating a leveled surface on a very uneven masonry or concrete.
- ✚ Suitable for smoothing walls and ceilings before final treatment is applied.
- ✚ Repairing, leveling and undercoating old

rendered surface.

APPLICATION PROCEDURE

Stage-1: SURFACE PREPARATION & INVESTIGATIONS

A - Pre Substrate Investigation

- ✚ To further ensure durability and efficiency of mortar performance, substrate should possess sufficient compressive strength.
- ✚ 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.

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 plaster. 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.
- ✚ The concrete or screed substrate has to be primed and / or levelled in order to achieve an even surface
- ✚ Substrate should be SSD (Surface Saturated Dry), this will aid to prevent quick drying out of putty when applied to substrate.

C - Post Substrate Preparation Investigation

- ✚ Any uneven or visibly loose pieces needs to be





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chipped off and perfected using EDEN reprofiling range of mortars to achieved an excellent smooth finish.

- ✚ Thoroughly remove any evidence of grinding dust or chipping particles observe.

Stage-2: APPLICATION

A – Mixing and Application

- ✚ Mix manually using an electrical hand mixer. Mix 20 kg of EDEN DECO 15 with 5-6 liters of clean water until a homogeneous paste is obtained. Let the mix rest for a few minutes.
- ✚ The mortar should be applied in one direction.
- ✚ Apply mortar to prepared/primed substrate according to desired thickness.
- ✚ EDEN DECO 15 hardens in approximately 2 hours after which subsequent smoothening and grinding can be carried out.
- ✚ Once set or slightly hardened, even out surface using suitable tools (e.g a range plumb).
- ✚ Once satisfactory even surface is achieved, smoothen/finish surface with a trowel or suitable tool.

C – Curing

EDEN DECO 15 has good curing time but will experience

accelerated curing under direct sunlight. Generally, It is important to protect EDEN DECO 15 against rapid drying from exposure to direct sun ray, extreme temperatures or wind, hence curing by means of a curing compound or constant wetting is recommended.

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

- ✚ Do not use more water than recommended during mixing
- ✚ Addition of extra materials to that of included in the package is not advised.
- ✚ Do not mix material in open weather under pouring rain
- ✚ Add powder to liquid
- ✚ Mix material by mechanical means and not manually.
- ✚ Always refer to relevant product specification documents (such as TDS, SDS, MSDS MS) for further guidance.

TECHNICAL PROPERTIES

<i>Packaging</i>	5kg, & 20kg pack	<i>Powder</i>
<i>Shelf life</i>	12 months minimum from date of production	<i>If stored properly in original, unopened and undamaged sealed packaging.</i>
<i>Appearance</i>	Grey	<i>Grey appearance when mixed.</i>
<i>Mix Ratio</i>	5 – 6 liters of water to 20kg bag.	<i>Mix by ratio of 1:4 or as observed.</i>
<i>Pot Life</i>	Approximately 45minutes	<i>Under normal conditions</i>
<i>Bulk Density</i>	1.7 -1.9 kg/l	ASTM D 412
<i>Compression strength</i>	30MPa @ 28Days	
<i>Silt content in sand</i>	< 1%	
<i>Maximum aggregate size</i>	2mm	
<i>Soundness</i>	<0.04%	
<i>Elongation at break</i>	~60%	
<i>Application Tolerance temp.</i>	Minimum 10° C Maximum 30° C	



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APPLICATION INFORMATION

<i>Cure Time</i>	24 hrs minimum for initial curing	<i>Dependent on application rate, effective sunlight accessed to the area and puddle concentrations.</i>
<i>Minimum Time To Re-coat</i>	As Observed	<i>Depending on application rate and style</i>
<i>Maximum Time To Re-coat</i>	As Observed	<i>Depending on application rate and style</i>
<i>Coverage</i>	1.3kg per m2 per mm thickness. (roughly 8-10m2/per 20kg bag)	<i>NB: The theoretical coverage provided above is obtained based on controlled lab practicals and variations can be expected onsite due to porosity of the substrate, accounting for wastage during application and prevailing weather conditions.</i>
<i>Storage condition</i>	Store in dry conditions in original packaging at temperatures between +5 °C and +30 °C.	<i>Protect from direct sunlight and frost</i>

CAUTION

- ✚ EDEN DECO 15 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* for Further details on Environmental Health and Safety.
- ✚ Application in cooler temperatures may require extra curing time before the installation of additional coverings.
- ✚ Do not add water to dilute the material
- ✚ Coverage is changeable depending on the application type, surface porosity, surface profile, variation in level or wastage etc. it is recommended that at least 3 layers are applied.

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.

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.

STORAGE AND SHELF LIFE

- ✚ EDEN DECO 15 can be stored 12 months minimum from date of production if stored properly in



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original, unopened and undamaged / sealed packaging.

- ✚ EDEN DECO 15 is supplied in 5kg & 20kg Bag.
- ✚ Storage area should be free from direct sunlight rays.
- ✚ Storage area should be free from moisture and rain.
- ✚ Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, and batch number and application precaution labels.

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.

