

# EDEN TILE GUM 300

Non-Slip Waterproof Polymer Modified Tile Gum, C2TES1 Classified

## PRODUCT DESCRIPTION

EDEN TILE GUM 300 is a 4th generation Advanced Cementitious Non-slip water repelling Tile adhesive. It is equipped with specifically researched Nano technology constituents that gives EDEN TILE GUM 300 its rank as an Advanced Polymer Modified Cementitious Non-Slip Deformable Tile Adhesive with extended open time that can be employed for fixing large format tiles in high rise building. Its refined polymers reinforces EDEN TILE GUM 300 non-shrink performance when used for tiling works. Its can also be employed for fixing mosaic, vitrified tiles, ceramic tiles, Palladiana, Stone Tiles etc. Its advance cementitious constituents enable it to be spread in to an extra thin-set lay to meet various user requirement as the case may be.

## SPECIAL FEATURES

- ✚ Self-curing properties, this allow for no hassle application with minimum labour.
- ✚ Thixotropic formula - no sag, for the easy application on wall
- ✚ Anti-shrink technology embedded.
- ✚ Non slip, superb initial adherence
- ✚ No hacking of the substrate needed to achieve the required bonding.
- ✚ Features quick and easy mixing and installation.
- ✚ Can easily be applied by trowel/notch trowel.
- ✚ Ensures fast set of tiles and even spread underneath tile surface.
- ✚ Suitable for use in tiling normal sized tiles on floors and walls in bathrooms, kitchen, sitting rooms, balconies, terrace, lobby etc.
- ✚ Fast and easy to mix and apply
- ✚ Low VOC – For a healthy living.
- ✚ Excellent/Very high bond strength
- ✚ Excellent resistant to direct water penetration due to its added waterproofing properties.
- ✚ Elastomeric, thus provides excellent crack-bridging properties.
- ✚ Useful for bed thickness of 3-15mm. May go up to 15 mm in a limited extent for wall & floor application.
- ✚ Good bond/adhesion strength owing to its polymer modified properties.
- ✚ Good tolerance to domestic chemicals such as detergents.

## WHERE TO USE

EDEN TILE GUM 300 is suitable for application in the following areas:

- ✚ Fixing of floor tile, wall skirting tiles, horizontal wall tiles in internal and external areas.
- ✚ Can suffice to fill slight indentation to level bedding upon which tiles will be laid.

- ✚ To be applied on interior walls and floors or on exterior floors.
- ✚ Laying of tiles over cementitious waterproofing membrane.
- ✚ Suitable for normal sized ceramic tiles with a medium-high absorption rate.
- ✚ Laying tiles over cementitious waterproofing
- ✚ Tiling of interior and exterior facades of the building which are exposed to outside weather conditions.
- ✚ Bonding of tiles on existing tiles
- ✚ All type of low and high absorption tiles
- ✚ Suitable for both vertical and horizontal application
- ✚ Suitable for normal sized ceramic and vitrified tiles
- ✚ For tiling of sound surfaces of concrete and non-sand surfaces such as; gypsum bond, particle board, plywood and other large scale stones.

## APPLICATION PROCEDURE

### Stage-1: SURFACE PREPARATION & INVESTIGATIONS

#### A – Pre-Substrate Investigation

- ✚ To further ensure durability and efficiency of adhesive 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.

#### B - Surface Preparation

- ✚ Careful surface preparation is essential for



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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 mortar. In order to achieve this, concrete surface must be mechanically profiled and prepared by chiselling out any loose concrete, and all closed cracks are to be opened.

- ✚ Substrate should be SSD (Surface Saturated Dry), this will aid to prevent quick drying out of mortar when applied to substrate.

## 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 or chipping particles observe.

## Stage-2: APPLICATION

### A - Priming

EDEN LATEX or EDEN SUPA-LATEX can be used as a primer to prepared substrate. This can be applied to prepared substrate by roller or brush in two coat and allowed to dry. Patching mortar should be applied to primed substrate once tacky. Please note that priming is optional and product application to SSD substrate will still be effective.

### B - Mixing

- ✚ EDEN TILE GUM 300 must be thoroughly mixed using a low speed electric stirrer (300- 400rpm) or other suitable equipment.
- ✚ Prior to mixing, measure out 3.8 – 4.0 liters of water.
- ✚ Stir mechanically while adding EDEN TILE GUM 300 to the mix.
- ✚ Mix continuously for 2 minutes minimum until a uniform homogenous slurry has been achieved.
- ✚ Always ensure to follow the standard practice of pouring powder to liquid.

### C - Application

- ✚ Apply EDEN TILE GUM 300 to prepared substrate by means of a notch trowel.
- ✚ Ensure entire surface is uniformly coated leaving no air entrapments.
- ✚ A thin layer of EDEN TILE GUM 300 should be applied onto the surface.

- ✚ To ensure no voids occur and full coverage of adhesive is achieved, tile should be pressed into adhesive giving twisting front and back sliding motion.
- ✚ In order to compensate for uneven surfaces or tiles or uneven thickness, in addition to applying adhesive on substrate, the rear of the tiles should be applied with EDEN TILE GUM 300.
- ✚ Product should not be applied under active rain pour.

## Filling the Joints:

Grouting should commence not before 24 hours with EDEN SUPER TILE GROUT.

## 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

- ✚ Note that the notch trowel size used in the application of the grout will directly affect the rate of consumption of the adhesive and the thickness of bed.

## CAUTION

- ✚ EDEN TILE GUM 300 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 grouting.
- ✚ 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.

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## 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>	Greyish	<i>Grey appearance when mixed.</i>
<i>Tensile-adhesion strength (EN 1348)</i>	$\geq 2.0 \text{ N/mm}^2$	<i>Initial / dry condition</i>
	$\geq 1.5 \text{ N/mm}^2$	<i>After water immersion / wet condition</i>
	$\geq 1.7 \text{ N/mm}^2$	<i>After heat ageing</i>
<i>Fresh Mortar Density</i>	1.8 ( $\pm 0.2$ ) kg/L	<i>After &gt; 10 minutes, open time</i>
<i>Adhesion to substrate</i>	$> 1.0 \text{ N/mm}^2$	ASTM D4541
<i>Slip resistance</i>	0.5 mm	EN 1308:2007
<i>Permeability to Water</i>	less than 0.1mm	Negligible
<i>Shear adhesive strength</i>	10 kN	BS 5980:1980
<i>Application Tolerance temp.</i>	$> +5^\circ\text{C}$	Minimum

## APPLICATION INFORMATION

<i>Pot Life</i>	Approximately 3600minutes	<i>Under normal conditions</i>
<i>Open time</i>	$> 20$ minutes	EN 12004-2 / ISO 13007-2
<i>Adjust-ability time</i>	$\sim 8$ minutes	
<i>Layer thickness</i>	Minimum of 2mm and Maximum 5mm (locally up to 10 mm thickness, for leveling purpose)	<i>Depending on application rate and style</i>
<i>Mix Ratio</i>	3.8 – 4.0 liters of water	<i>Mix by Mechanical means.</i>
<i>Coverage (Small Sized Tile)</i>	Approximately $3\text{kg/m}^2$ consumption	<i>6mm Notched trowel size</i>
<i>Coverage (Medium Sized Tile)</i>	Approximately $4\text{kg/m}^2$ consumption	<i>8mm Notched trowel size</i>
<i>Coverage (Large Sized Tile)</i>	Approximately $5\text{kg/m}^2$ consumption	<i>10mm Notched trowel size</i>
<i>Storage condition</i>	Store in dry conditions in original packaging at temperatures between $+5^\circ\text{C}$ and $+30^\circ\text{C}$ .	<i>Protect from direct sunlight and frost</i>

### 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



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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 TILE GUM 300 can be stored 12 months minimum from date of production if stored properly in original, unopened and undamaged / sealed packaging.
- ✚ EDEN TILE GUM 300 is supplied in 5kg & 20kg Bag.
- ✚ Storage area should be free from direct sunlight rays.
- ✚ Storage area should be free from moisture and rain in their original, unopened containers, bearing the manufacturers name, product designation, and batch number and application precaution labels.

## STANDARD COMPLIANCE

Compiled with European EN 12004 as C2TE class S1 tile adhesive

## 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.

