

Product Data Sheet

Edition 01/06/2022

HAUTEUR ADHESIVE - 411

Ready to use Tile Adhesive - 411 for all kinds of tile application

Product Description

HAUTEUR Dry Mix Tile Adhesive - 411 is a premix high quality adhesive for fixing of all types of tiles such as ceramic, vitrified, porcelain etc for both floor & wall application

Comparison with conventional mortar

Parameters	HAUTEUR Adhesive 411	Conventional Method
Application time	Fast Application	Not Possible
Quality	Consistent quality due to automated process	Manual mixing hence not possible to test every batch
Shrinkage Cracks	Minimum shrinkage cracks	Significantly high shrinkage of cracks
Handling & Storage	Easy handling and storage	Difficult to keep stock of different materials
Wastage	No Wastage	High Wastage
Efflorescence	Negligible	Observed in many cases
Sand	Graded	Not Graded
Rebound Loss	Minimum	High due to non-gradation & bigger sand particle size



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HYDERABAD-85



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Composition

NO	Chemical Name	Composition
1	Mortar (Cement & Aggregate)	91-93%
2	Additive 1	7%
3	Polymer	0.6 %
4	Additive 2	0.4 %

Physical & Chemical Properties

Appearance	: Grey Powder
Odour	: Odorless
PH	: 11-12.6
Solubility	: Not Applicable
Boiling point	: Not Applicable
Melting point	: Not Applicable
Vapour Pressure	: Not Applicable
Volatility	: No Information Available
Evaporation rate	: Not Applicable
Vapour density	: Not Applicable
Specific Gravity	: Not Applicable
Flash Point	: No Information Available
Flameble Limit	: No Informatiion Available
Viscosity	: No Information Available



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Form

Appearance / colours	Grey Powder
Packaging	20 kg bag
Storage	6 months from date of production if stored properly in original unopened, sealed and undamaged packing in dry and cool conditions
Storage conditons / shelf-life	6 months from date of production if stored properly in original unopened, sealed and undamaged packing in dry and cool conditions

Technical Data

Chemical Base	Cementitious mortar modified with polymers.
Mixed Density	~ 1.8 to 1.85 gram/ cc)
Layer Thickness	3-4 mm
Mechanical / Physical properties	
Tensile Adhesion Strength	2862 N (Dry) 1567 N (Wet)
Shear Adhesion Strength	2.85 KN (Dry) @ 24hrs 8.22KN (Dry) @ 14 hrs 5.88 KN (Wet) @ 14hrs
Adjustability	50 minutes
Open time	45 minutes
Pot Life	3 hours



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System Information

Application Details

Coverage 50 - 60 sq.ft / 20kg bag @ 3mm thickness)

Substrate Quality The substrate must be structurally sound , laitance free , clean and free from dirt, oil, greese, other contaminants and loose or friable particles

Substrate preparation / priming Pre-wetting of substrate is essential with maximum saturation of water but saturated surfaced dry (S.S.D.) condition

Application conditions/ limitatiions

Substrate Temperature +5⁰ C min. / +45⁰C max

Ambient Temperature +5⁰C min. / +45⁰C max

Application Instructions

Mixing Water : Powder = 1 : 4 1 p.b.w water for ever 4 p.b.w powder

Mixing Time 3 minutes minimum

Mixing Tool HAUTEUR Adhesive 411 can be mixed on a clean platform or container manually or in a normal grout mixer

Mix thoroughly with clean water for a minimum of 3 minutes

The product is ready for use



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Application Method

1. The surface of where the adhesive has to be applied should be free from oil , grease, paint, loose plaster and dirt particles.The surface should be rough absorbent to a limited extent , strong and clean.
- 2.Dampen the surface before application of adhesive for better bonding
- 3.Water should be taken 1 : 4 ratio i.e, for ever 1 part by weight water, 4 part by weight powder.
- 4.Leave the mixer to react for 5 minutes.
- 5.For better coverage use notched trowel to spread the adhesive

Cleaning of Tools

Clean all tools and application equipment with water immediately after use.Hardened / cured material can only be removed mechanically.

Hazard Identification

According to the present state of knowledge, this product is safe for handling and has no adverse effect to humans of environment

First Aid Measures

- Eye Contact : Avoid falling into the eyes. Rinse the eye with plenty of water , at the same time keep the unaffected eye well protected.
- Inhalation : Remove the casualty into fresh air. If the problem persists such as cough or throat irritation. Seek medical help.
- Skin Contact : Wash thoroughly the affected area with running water.
- Ingestion : Do not induce vomiting. Keep individual calm and seek medical assistance.



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Fire Protection Measures

Fire : Not considered a fire hazard material

Explosion : Not considered a explosive material

Fire extinguishing media : use agent appropriate to extinguish surrounding fire such as water spray , powder or foam

Fire fighting instruction : In the event of fire , wear full protective clothing with face sheild

Accidental Release Measures

General Protective Measures : Use proper personal protective equipment as indicated

Cleanup Procedure : Scoop or sweep up spilled material and place into suitable container for disposal, Flush with water

Handling & Storage

Handling : Wear protective garments, helmets, eye wear during handling, avoid contact with eyes

Storage : Store in warm , ventilated & dry places.



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Exposure Control & personal Protection

Airborne Exposure limits	: ACGIH TWA 10 mg/m ³ (Nuisance Dust)
Ventilation System	: All system of local or general exhaust is recommended to keep workers exposure as low as possible
Skin Protection	: wear appropriate protective clothing , including boots, gloves, coveralls to minimize contact with eyes
Eye Protection	: Use chemical safety goggles or face shield wherever splashing is possible. Maintain eye wash and quick facilities in work space

Stability & Reactivity

Stability	: Stable under ordinary conditions of use and storage
Hazardous decomposition products	: Potential imitating &toxic gases may be generated . by thermal decomposition
Hazardous Polymerization	: Not Known
Conditions to avoid	: Incompatible materials, dust generation, acid and excess heat



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Toxicological Information

Toxicity area	: No information available
Carcinogenicity	No information available
Reproductive effect	: No information available
Effects of over pressure	: No information available
Chronic effects	: No information available
Target organs	: No information available

Toxicological Information

Adverse ecological effects in the use of this product is not known

Disposal Information

What ever material that cannot be saved, recovered or recyclable should be moved away to approved waste facility. Spent material or off specification material in significant quantity and in paste form should not be disposed off in sewage or sanitary land fills unless effectively treated. If there is any doubt as to the methods of disposal it should be referred to the Department of Environment.

Transport Information

The material should be transported in sealed condition in suitable bags and pallets

Regulatory Information

Not available



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Notes on Application / Limitations

Cementitious substrates must be at least 28 days old

Do not exceed the recommended water dosage. Apply to sound prepared substrates. Do not exceed maximum layer thickness.

Protect freshly applied material from freezing and rain etc.

Value Base

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.

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of HAUTEUR products are given in good faith based on HAUTEUR's knowledge and experience of the product when properly stored, handled and applied under normal conditions in accordance with HAUTEUR'S recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. HAUTEUR 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.



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