

Product Data Sheet

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SIMCRETE TILE ADHESIVE - 301 REGULAR

Ready to use Tile Adhesive for all kinds of Tile Application.

Product Description

SIMCRETE Dry-Mix Tile Adhesive - 301 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

Parameter	SIMCRETE Tile Adhesive	Conventional Method
Application time	Fast application	Not possible
Quality	Consistent quality due to computerized process	Manual mixing, hence not possible to test every batch
Shrinkage cracks	Minimum shrinkage cracks	Significantly high shrinkage cracks
Handling and storing	Easy handling and storage	Difficult to keep stock of different material
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

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

Apperance	: Grey Powder
Odour	: Odorless
pH	: 11 - 12.6
Solubility	: Not Applicable
Boiling Point	: Not Applicable
Melting Point	: Not Applicable
Vapour Preassure	: Not Applicable
Volatility	: No Information Available
Evaporaion rate	: Not Applicable
Vapour density	: Not Applicable
Specific Gravity	: Not Applicable
Flash Point	: No Information Available
Flamable limit	: No Information Available
Viscosity	: No Information Available



Form

Appearance / Colours	Grey powder
Packaging	20 kg bag
Storage	12 months from date of production if stored properly in original unopened, sealed and undamaged packaging in dry and cool conditions.
Storage Conditions / Shelf-Life	12 months from date of production if stored properly in original unopened, sealed and undamaged packaging 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- 6 mm

Mechanical / Physical

Properties

Tensile Adhesion Strength	2862 N (Dry) 1567 N (Wet)				
Shear Adhesion Strength	2.85 kN (Dry) @24 hrs 8.22 kN (Dry) @ 14 hrs 5.88 kN (Wet) @ 14 days				
Adjustability	50 minutes	Open time	45 minutes	Pot Life	3 hours

System Information

Application Details

Coverage	50 - 60 sq.ft/ 20 kg bag) @ 3mm thickness.
Substrate Quality	The substrate must be structurally sound, laitance free, clean and free from dirt, oil, grease, other contaminants and loose or friable particles.
Substrate Preparation / Priming	Pre-wetting of substrate is essential with maximum saturation of water but saturated surface dry (S.S.D.) condition.

Application Conditions / Limitations

Substrate Temperature	+5°C min. / +45°C max.
Ambient Temperature	+5°C min. / +45°C 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	SIMCRET Tile Adhesive - 301 can be mixed on a clean platform or container manually or in a normal grout mixer. Mix thouroughly with clean water for minimum 3 minutes The product is now ready for use

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 absorbant 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 mixture to react for 5 minutes.
5. For better coverage use notched trolvel 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.
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Hazard Identification

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



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 a fire, wear full protective clothing with face shield.

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, eyewear during handling, avoid contact with eyes.
Storage	: Store in warm, ventilated & dry places.

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 minimise contact with skin
Eye Protection	: Use chemical safety goggles or face shield wherever splashing is possible. Maintain eye wash and quick drench facilities in work place.

Stability & Reactivity

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



Toxicological Information

Toxicity area	: No information available
Carcinogenicity	: No information available
Reproductive effect	: No information available
Effects of overpressure	: 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 recycleable should be moved away to approved waste facility. Spend 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 refered to the Department of Environmen.

Transport Information

The material should be transported in sealed condition in suitabls bags and pallets.

Regulatory Information

Not available

Notes on Application / Limitations

Cementitious substrates must be at least 28 days old.

Do not exceed the recommended water dosage. Apply only to sound, prepared substrates. Do not exceed the 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 SIMCRETE products are given in good faith based on SIMCRETES knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with SIMCRETE'S recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability 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. SIMCRETE 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.

