

# forté



*an*  
**AMERICAN CLAY**<sup>®</sup>  
Naturally Beautiful Walls™  
*product*

## Material Safety Data Sheet

Date Prepared: July 8, 2016

Date Revised: n/a

### Section 1 Identification

**Product Name:** American Clay Plaster – Forté Base

**Formula:** Proprietary blend of aggregates, clays, and acrylated styrene.

**Manufacturer:** American Clay Enterprises, LLC  
2418 2<sup>nd</sup> Street SW  
Albuquerque, NM 87102  
1-866-404-1634 (toll free)  
505-243-5300 (local)  
505-244-9332 (fax)

### Section 2 Hazards Identification

Ingredients:	% by Wt:	CAS #:	OSHA PEL**:	ACGIH TLV**:
Acrylated Styrene (NJTS-50059-NCD / NJTS-50304-NVE / NJTS-50554-NLD)	<4%	-	-	-
Quartz	<2%	14808-60-7	0.1mg/m <sup>3</sup> Resp.	0.05 mg/m <sup>3</sup> TWA
Nuisance Dust	-	-	5mg/m <sup>3</sup> Resp.	3mg/m <sup>3</sup> Resp.
Total Dust	-	-	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>
<b>NFPA/HMIS:</b>	Health – 1*, Fire – 0, Reactivity – 0, Specific Hazard – see Section 8			

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## Section 2 Hazards Identification (cont.)

**\*WARNING:** This product contains a small amount of quartz that may cause delayed respiratory disease if inhaled over a prolonged period of time. Avoid breathing dust. Use NIOSH/MSHA approved respirator where TLV for quartz may be exceeded. IARC Monographs on the evaluation of the Carcinogenic Risk of Chemicals to humans (volume 68, 1997) concludes that quartz is carcinogenic to humans (IARC classification 1).

**Note:** The Permissible Exposure Limits (PELs) reported above are the pre-1989 limits that were reinstated by OSHA June 30, 1993 following a decision by the United States Circuit Court of Appeals for the 11<sup>th</sup> Circuit. Federal OSHA is now enforcing these PELs. More restrictive exposure limits may be enforced by some other jurisdictions. National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50micrograms respirable free silica per cubic meter of air (0.05mg/m3) as determined by full shift sample up to a 10-hour working day, 40 hours per week. See: 1974 NIOSH criteria for a recommended Standard for Occupational Exposure to Crystalline Silica for more detailed information.

\*\*Unless otherwise noted, all PEL and TLV values are reported as 8 hour time weighted average (TWA).

## Section 3 Composition

<b>Ingredients:</b>	<b>Approximate % by Volume:</b>
Calcium Carbonate / Marble / Limestone	0-65%
Kaolin	0-50%
Kaolinite	0-30%
Smectite	0-25%
Acrylated Styrene (NJTS-50059-NCD / NJTS-50304-NVE / NJTS-50554-NLD)	0-5%

\*The exact formula ratio for American Clay plasters is the proprietary piece of the material. All materials used in the plaster are listed in the above ingredients list.

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## Section 4 First-aid Measures

### First Aid

Inhalation: Move victim to fresh air. If breathing difficulty continues, give oxygen & obtain medical attention.

Skin contact: Wash with soap and warm water. If irritation develops, consult a physician.

Eye contact: Flush with water for at least 15 minutes. Call physician if irritation persists.

Ingestion: If large amounts are ingested, get immediate medical attention.

### Respiratory Protection:

Provide adequate general ventilation. Provide workers with NIOSH approved respirators for lung damaging dust when exposed to dust. Exposure levels over 100 times TLV required air supplied respirators.

### Skin & Eye Protection:

Gloves and safety goggles should be worn when exposed to excessive dust.

### Ventilation:

Provide Local Exhaust ventilation to meet exposure limits.

## Section 5 Fire-fighting Measures

**Fire Hazards**: Dust can form an explosive mixture in the air. Avoid dust formation and take precautionary measures against static discharges around sources of ignition.

**Means of Extinction**: Use extinguishing media appropriate for surrounding media (including dry chemical fire extinguisher or water).

**Fire Fighting Measures**: Keep personnel away from and upwind of fire. Wear full fire-fighting turn-out gear and respiratory protection.

## Section 6 Accidental Release Measures

### Spill & Leak:

Vacuum if possible to avoid generating airborne dust. Avoid breathing dust. Wear and approved respirator. Avoid adding water; product will become slippery when wet.

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## Section 7 Handling and Storage

**Handling:** Dust in the work area should be kept minimal and proper ventilation provided. Avoid inhalation of dust. Avoid eye contact with materials.

**Storage:** Use normal precautions to avoid bag breakage and spillage. Store in a dry place.

**Other Precautions:** Slippery when wet

**Shipping:** No special shipping information required.

## Section 8 Exposure Controls/Personal Protection

Personal protection equipment: Protective clothing

Eye protection: Protective goggles

Hand protection: Gloves

Hygiene measures: Wash skin thoroughly with soap and water after contact with this material.

Inhalation measures: Approved dust respirators

## Section 9 Physical and Chemical Properties

**Boiling Point:** Not Applicable

**Loose Fill Density:** 52-69 lbs/ft<sup>3</sup>

**Vapor Pressure:** Not Applicable

**Melting Point:** Not Applicable

**Vapor Density:** Not Applicable

**Evaporation Rate:** Not Applicable

**Solubility in Water:** Negligible

**Appearance and Odor:** Buff to White color powder with angular particles of white, tan, and grey.

## Section 10 Stability and Reactivity

**Stability:** Stable under normal conditions.

**Hazardous Decomposition Products:** Thermal oxidative decomposition can produce calcium oxide.

**Conditions of Reactivity:** Hazardous polymerization will not occur.

**Incompatible Materials:** Reacts with acids to liberate carbon dioxide. Ignites on contact with fluorine. Also incompatible with alum and ammonium salts.

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## Section 11 Toxicological Information

**Exposure Limits:** See Section 2

**Acute Effects:**

Irritancy of product: Eye contact and inhalation are major routes of entry

Inhalation: Inhalation of dust can cause irritation

Skin: Prolonged or repeated skin contact can cause irritation.

Eyes: Contact with eyes can cause irritation

Ingestion: Not an expected route of entry

**Chronic Effects & Carcinogenicity:**

Excessive inhalation of dust from these products can cause silicosis. Crystalline silica is listed as an IARC Class 1 potential carcinogen. It has been determined that there is sufficient evidence for the carcinogenicity of crystalline silica to experimental animals and humans. These are chronic, slow developing diseases with symptoms usually delayed 10 years or more.

**Signs and symptoms of exposure:** There are generally no signs or symptoms of exposure to crystalline silica.

**Medical Conditions Generally Aggravated by Exposure:** Individuals with respiratory disease, or subject to eye irritation should not be exposed to crystalline silica dust.

**California Proposition 65 Warning**

This product contains crystalline silica, a chemical known to the State of California to cause cancer.

## Section 12 Ecological Information

Poses no threat to the environment if disposed of responsibly.

## Section 13 Disposal Considerations

**Waste Disposal:**

Dispose of waste in an approved landfill in accordance with federal, state, and local laws.

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## Section 14 Transport Information

D.O.T. Classification: Not Hazardous by D.O.T. Regulations – Class 50, Dry Clay Plaster

D.O.T. Proper Shipping Name: Not Regulated

## Section 15 Regulatory Information

**TSCA (Toxic Substance Control Act) United States:** Listed on TSCA Inventory

**DERCLA (Comprehensive Response Compensation and Liability Act):** No reportable quantity

**DSL (Canada):** Listed

**SARA Title III, Section 313:** Not Listed

**EINECS (European Community):** Listed

Compliance with 29 CFR, Part 1910.1200.

## Section 16 Other Information

### Abbreviations

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

PEL: Personnel Exposure Limits

TLV: Threshold Limit Values

TWA: Time Weighted Average

NIOSH: National Institute of Occupational Safety and Health

MSDS: Material Safety Data Sheets

### References

ACGIH, Threshold Limit Values and Biological Exposure Indices for 2003

IARC Monographs, Volume 68, Silica, Some Silicates and Organic Fibers, 1997

Material Safety Data Sheets of raw materials

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