



DUSH APEX LIMITLESS

SAFETY DATA SHEET (SDS / MSDS)

High-Polymer-Modified Flexible Cementitious Marble and Tile Adhesive

Version	1.2	Issue Date	21 April 2022
Product Form	White powder	Pack Size	20 kg
Intended Use	Marble / Tile adhesive	Country of Manufacture	India

This Safety Data Sheet contains the current safety, handling and technical information for DUSH Apex Limitless.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product identifier	DUSH Apex Limitless
Product type	Cementitious, high-polymer-modified flexible tile adhesive; dry powder.
Recommended use	Fixing ceramic, vitrified, marble, natural stone, terrazzo, brick, glass mosaic, large-format and slim/thin tiles and slabs on suitable substrates; indoor and outdoor construction use.
Uses advised against	Uses other than the recommended construction adhesive application, or use contrary to the product technical instructions.
Brand	DUSH
Address	Via Roma, 2, Lancenigo di Villorba - 31020, Treviso (TV), Italy
Manufactured/Packed/Imported in India by	Elite Collection INC
Manufacturer / Importer Address	1st Floor, 683, 15th Cross Road, Jeewan Griha Colony, 2nd Phase, J.P. Nagar, Bengaluru - 560078, Karnataka, India
Telephone	Toll Free: 18008910133
E-mail	info@dushproducts.it / info@dushproducts.com
Website	dushproducts.it / dushproducts.com

2. HAZARD IDENTIFICATION

GHS classification	Skin Irritation - Category 2; Eye Irritation - Category 2; Specific Target Organ Toxicity - Single Exposure - Category 3 (respiratory tract irritation).
Signal word	WARNING
Hazard pictogram	GHS07 - Exclamation Mark.
Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Precautionary statements	Avoid breathing dust. Wash thoroughly after handling. Wear protective gloves and eye/face protection. Use adequate ventilation and dust control. IF INHALED: Move person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing. Seek medical advice if irritation persists. Keep out of reach of children.
Other hazards	Dust generated during opening, pouring or mixing can irritate the nose, throat and lungs. Wet cementitious material is alkaline and may irritate skin and eyes. Respirable crystalline silica exposure may occur where a respirable fraction is generated during handling, pouring or mixing.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient / component	CAS No.	Concentration	Classification / role
Portland Cement	65997-15-1	20–<50%	Cementitious binder; relevant hazardous component
Proprietary mineral fillers and performance-modifying additives	Proprietary / mixture	Confidential formulation	Mineral fillers, polymer modifiers and performance additives

4. FIRST-AID MEASURES

Inhalation	Move person to fresh air. Keep at rest. Rinse mouth and clear dust from the nose and throat. Seek medical attention if coughing, breathing difficulty or irritation persists.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with plenty of water. Do not allow wet product to remain against skin. Seek medical attention if irritation, burns or rash persist.
Eye contact	Immediately rinse cautiously with clean water for at least 15 minutes, keeping eyelids open. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention, especially for persistent pain, redness or visual disturbance.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Give water if the person is conscious and able to swallow. Seek medical advice if unwell.
Most important symptoms	Dust may irritate the eyes and respiratory tract. Wet cementitious material may cause skin irritation and serious eye irritation, particularly with prolonged contact.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	The product is non-combustible under normal conditions. Use extinguishing media appropriate for the surrounding fire.
Unsuitable media	Avoid methods that create excessive airborne dust.
Specific hazards	The product itself does not present a significant fire hazard. Heating or fire involving packaging or nearby materials may generate irritating decomposition products.
Protective equipment	Firefighters should use standard protective equipment and self-contained breathing apparatus where smoke or decomposition products are present.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid generating or breathing dust. Keep unnecessary personnel away. Wear suitable gloves and eye protection. Use suitable particulate respiratory protection where dust exposure may occur.
Environmental precautions	Prevent large quantities from entering drains, surface water or waterways. Wet cementitious material can locally increase pH.
Containment and clean-up	Avoid dry sweeping where it may create airborne dust. Use an industrial vacuum with suitable filtration or carefully collect by methods that minimise dust. Place recovered material in suitable containers. Small residues may be dampened carefully where compatible with the clean-up method.

7. HANDLING AND STORAGE

Safe handling	Minimise dust generation. Do not breathe dust. Avoid contact with eyes and prolonged skin contact. Wear gloves and eye/face protection. Wash hands after handling. Keep work area adequately ventilated.
Mixing / application	Mix with water according to the product technical information. Use suitable mechanical mixing equipment and dust-control practices. Avoid creating dust during opening, pouring and mixing.
Storage conditions	Keep bags tightly closed and dry. Store in a cool, dry and well-ventilated place at 28-35°C, away from heat and moisture. Best-before period: 12 months.
Incompatible materials	Keep away from strong acids and materials that react adversely with alkaline cementitious products. Protect from moisture until use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Provide adequate general ventilation. Use local exhaust or dust extraction where powder is poured or mixed. Use dust suppression and good housekeeping practices.
Respiratory protection	Where dust exposure cannot be adequately controlled, use suitable particulate respiratory protection selected according to the applicable occupational exposure standard and workplace risk assessment.
Eye / face protection	Wear safety glasses with side shields. Use chemical splash/dust goggles or face protection during mixing where dust or wet splashes may occur.
Hand protection	Wear suitable protective gloves resistant to alkaline cementitious materials. Replace contaminated or damaged gloves.
Skin / body protection	Wear long sleeves and protective work clothing. Use waterproof footwear where wet mortar contact is possible.
Occupational exposure control	Control total and respirable dust, respirable crystalline silica and cement-constituent exposure in accordance with applicable occupational exposure limits.
Hygiene measures	Wash hands after handling. Do not eat, drink or smoke while using the product. Remove contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Powder
Appearance	White powder
Odour	Odourless
pH	Alkaline when mixed with water
Mixed density	Approximately 1.5-1.8 kg/L
Behaviour in water	Disperses in water; cementitious components hydrate on contact with water.
Flammability	Non-flammable under normal conditions of use and storage.
VOC content	< 0.3 g/L
Application temperature	6-34°C
Adhesive thickness	4-14 mm

10. STABILITY AND REACTIVITY

Reactivity	Reacts with water through cement hydration; the mixture becomes alkaline.
Chemical stability	Stable under recommended dry storage conditions.
Possibility of hazardous reactions	No hazardous polymerisation is expected under normal use. Contact with strong acids may cause vigorous reaction.
Conditions to avoid	Moisture during storage, excessive heat, contamination and uncontrolled dust generation.
Incompatible materials	Strong acids and materials that react adversely with alkaline cementitious products.
Hazardous decomposition products	No hazardous decomposition products are expected under normal conditions. Thermal decomposition or fire involving organic components or packaging may produce irritating fumes.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure	Inhalation of dust; eye contact; skin contact; accidental ingestion.
Acute effects	Dust may cause irritation of the eyes and respiratory tract. Wet cementitious material may cause skin irritation and serious eye irritation, particularly with prolonged contact.
Sensitisation	No additional sensitisation classification is stated for the finished product beyond the hazard classification given in Section 2.
Respiratory effects	Repeated exposure to respirable mineral dust, including respirable crystalline silica where a respirable fraction is generated, may cause chronic respiratory effects. Control exposure in accordance with applicable occupational exposure limits.
Carcinogenicity / mutagenicity / reproductive toxicity	No additional classification for carcinogenicity, mutagenicity or reproductive toxicity is stated for the finished product beyond the hazard classification given in Section 2.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Avoid uncontrolled release into drains, surface water or waterways. Wet cementitious material may locally increase pH.
Persistence / degradability	Mineral and cementitious constituents are inorganic and do not biodegrade in the conventional sense.
Bioaccumulation	Significant bioaccumulation is not expected for the inorganic mineral constituents.
Mobility in soil	Wet material may disperse with water and may locally increase pH. Prevent uncontrolled release.
Other adverse effects	Prevent large or uncontrolled releases into drains and water bodies.

13. DISPOSAL CONSIDERATIONS

Product disposal	Dispose of unused product and residues in accordance with applicable local and national waste requirements. Do not discharge large quantities into drains or watercourses.
Hardened material	Hardened cementitious material may be managed in accordance with applicable construction or mineral-waste requirements.
Packaging	Empty packaging should be handled and disposed of in accordance with local waste requirements. Do not reuse packaging for food or drinking water.

14. TRANSPORT INFORMATION

Transport classification	Not regulated as dangerous goods for road, rail, sea or air transport.
UN number	No UN number required.
UN proper shipping name	DUSH Apex Limitless - Cementitious Tile Adhesive.
Transport hazard class	No dangerous-goods transport class.
Packing group	No dangerous-goods packing group.
Environmental hazards	No transport environmental hazard classification.
Special precautions	Keep packages dry, securely closed and protected from rupture and moisture ingress during transport.

15. REGULATORY INFORMATION

Regulatory status	Handle, store, label, transport and dispose of the product in accordance with applicable local and national chemical, occupational safety, environmental and transport requirements.
Hazard communication	The product label and this SDS communicate the hazard classification, signal word, hazard statements and precautionary measures stated in Section 2.

16. OTHER INFORMATION

SDS preparation basis	Prepared on the basis of the verified formulation and current technical information for DUSH Apex Limitless.
Product information	DUSH Apex Limitless is a high-polymer-modified, highly flexible cementitious adhesive with enhanced slip resistance, extended open time and strong bond performance, intended for large-format tiles, natural stones and slim tiles on vertical and horizontal surfaces, indoors and outdoors.
Revision	Version 1.2 - Initial issue
Issue date	21 April 2022
Emergency contact	Toll Free: 18008910133
Manufacturer contact	Elite Collection INC india@dushproducts.com dushproducts.com

General statement: The information in this Safety Data Sheet is provided for safe handling, storage, transport and use of the product under normal conditions. Users should follow the product Technical Data Sheet and applicable workplace and environmental requirements.