

DUSH ARENA DUO

SAFETY DATA SHEET (SDS / MSDS)

Two-Component PU Adhesive

Version 1.2 | Issue Date: 21.04.2022

1. IDENTIFICATION	
Item	Information
Product identifier	DUSH ARENA DUO
Product type	Two-component polyurethane adhesive - resin component
Relevant identified use	Component of a high-performance two-component polyurethane adhesive system for bonding marble, granite and natural stone to wood, plywood, glass, metal and other suitable substrates.
Uses advised against	Uses other than those recommended by or contrary to the current product technical instructions. Use only as the designated component of the DUSH ARENA DUO system.
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	
Item	Information
GHS classification	Skin Irritation - Category 2; Eye Irritation - Category 2; Skin Sensitization - Category 1A; Hazardous to the aquatic environment, chronic - Category 3.
Signal word	Warning
Hazard pictogram	 GHS07
Hazard statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P261 Avoid breathing vapors /mist/spray. P273 Avoid release to the environment. P280 Wear protective gloves and eye/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P501 Dispose of content/container in accordance with applicable regulations.
Other hazards	Avoid inhalation of dust generated during removal, grinding, or mechanical treatment of cured material.

3. COMPOSITION / INFORMATION ON INGREDIENTS		
Chemical identity	CAS No.	Concentration
Proprietary polyurethane resin system	Proprietary	Approx. 30%
Other proprietary fillers and additives	Proprietary	Balance

4. FIRST-AID MEASURES	
Item	Information
Skin contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and plenty of water. If irritation or rash develops, obtain medical advice.
Eye contact	Rinse cautiously with clean water for several minutes while keeping eyelids open. Remove contact lenses if present and easy to remove. Continue rinsing. Obtain medical attention if irritation persists.
Inhalation	Move the affected person to fresh air and keep at rest. Obtain medical advice if symptoms occur.

Item	Information
Ingestion	Do not induce vomiting. Rinse Mouth and obtain medical advice. Show the product label or this SDS where possible.
Most important symptoms/effects	Skin irritation, serious eye irritation, and allergic skin reaction may occur.
Immediate medical attention	Treat symptomatically. Seek prompt medical attention for significant exposure or persistent symptoms.

5. FIRE-FIGHTING MEASURES

Item	Information
Suitable extinguishing media	Water spray, carbon dioxide, dry chemical or suitable foam, selected according to the surrounding fire.
Unsuitable extinguishing media	No specific restrictions are identified for normal firefighting conditions.
Specific hazards	Heating or burning may generate smoke, carbon oxides, and other irritating or harmful decomposition products.
Protective equipment for firefighters	Use appropriate protective equipment and self-contained breathing apparatus where necessary.
Environmental precaution	Prevent contaminated firefighting water from entering drains, soil or watercourses.

6. ACCIDENTAL RELEASE MEASURES

Item	Information
Personal precautions	Wear suitable PPE. Keep unnecessary and unprotected people away. Avoid skin and eye contact and unnecessary inhalation of vapours, mist, or spray.
Environmental precautions	Prevent uncured material from entering soil, drains, surface water, and waterways.
Containment and clean-up	Contains with suitable inert absorbent material. Collect contaminated material into appropriate labelled containers for authorized disposal. Clean the affected area without uncontrolled discharge to drains.
Reference to other sections	See Sections 8 and 13 for personal protection and disposal guidance.

7. HANDLING AND STORAGE

Item	Information
Safe handling	Avoid contact with skin and eyes. Avoid breathing vapours, mist, spray or dust. Do not eat, drink or smoke while handling. Provide adequate ventilation. Keep containers closed when not in use.
Storage	Store in a cool, dry and adequately ventilated area. Protect from direct sunlight, excessive heat, and contamination. Keep the container tightly closed when not in use.
storage condition	Store at 28-35 °C in a dry, well-ventilated environment. Keep tins tightly closed and protected from direct sunlight and external heat sources.
Shelf life	Best 12 months before stored in accordance with recommendations.
Specific end use	Use only as the designated component of DUSH ARENA DUO and in accordance with the current TDS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Item	Information
Engineering controls	Provide adequate general ventilation. Use local exhaust where vapours or mist may be generated.
Eye / face protection	Safety glasses or goggles with side protection; use face protection where splashing may occur.
Hand protection	Chemical-resistant gloves. Nitrile gloves are recommended where compatible with the task and exposure duration.
Skin / body protection	Suitable protective clothing and safety footwear.
Respiratory protection	Normally control exposure through adequate ventilation. Use suitable respiratory protection where ventilation is inadequate or mist/dust exposure may occur.
Hygiene measures	Wash hands and exposed skin after handling and before eating, drinking or smoking. Remove contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Item	Information
Physical State (Part A+B)	Paste
Colour (Part A+B)	White
Odour	Characteristic, Part A turpentine-like, Part B-Pine Pungent
Water solubility	Partially insoluble
Density	Mixed system: approximately 1.5 g/cm ³

Item	Information
Application temperature	12 °C to 28 °C

10. STABILITY AND REACTIVITY

Item	Information
Reactivity	Stable under normal recommended conditions of use and storage.
Chemical stability	Stable under recommended handling and storage conditions.
Possibility of hazardous reactions	No hazardous reactions expected during normal intended use when handled according to this SDS.
Conditions to avoid	Excessive heat, direct sunlight and prolonged exposure to elevated temperatures. Keep containers tightly closed.
Incompatible materials	Avoid contact with strong oxidising agents, strong acids and strong alkalis.
Hazardous decomposition products	Thermal decomposition or combustion may generate carbon oxides and other irritating decomposition products.

11. TOXICOLOGICAL INFORMATION

Item	Information
Skin corrosion / irritation	Skin Irritation - Category 2 (H315): Causes skin irritation.
Serious eye damage / irritation	Eye Irritation - Category 2 (H319): Causes serious eye irritation.
Skin sensitisation	Skin Sensitisation - Category 1A (H317): May cause an allergic skin reaction.
Likely routes of exposure	Skin contact, eye contact and inhalation of vapours or mists generated during handling.
Expected symptoms / effects	Skin redness or irritation, eye irritation and allergic skin reaction may occur following exposure.

12. ECOLOGICAL INFORMATION

Item	Information
Ecotoxicity	Harmful to aquatic life with long lasting effects (Aquatic Chronic 3, H412).
Persistence / degradability	Manage uncured material and residues to prevent environmental release.
Bioaccumulative potential	Handle and dispose of uncured material to minimise environmental exposure.
Mobility in soil	Prevent release of uncured material to soil and waterways.
PBT / vPvB	No PBT or vPvB concern is identified for the mixture.
Other adverse effects	Avoid release of uncured material into drains, soil, surface water or natural waterways.

13. DISPOSAL CONSIDERATIONS

Item	Information
Product disposal	Recover unused material where practical. Dispose of uncured product and residues through an authorised waste-management facility in accordance with applicable local and national requirements.
Packaging	Dispose of contaminated packaging through an authorised route. Do not reuse contaminated packaging for food or potable water.
Environmental precaution	Do not discharge uncured product into wastewater systems, drains or natural watercourses.

14. TRANSPORT INFORMATION

Item	Information
Transport status	Non-dangerous goods under ADR/RID, IMDG and IATA transport regulations.
Environmental hazards	Marine pollutant: No. Environmental pollutant: No.
Special precautions	Transport in securely closed original containers. Keep packages secure and protect from physical damage, excessive heat, direct sunlight and contamination.

15. REGULATORY INFORMATION

Item	Information
Hazard communication	Classification, signal word, hazard statements and precautionary statements are given in Section 2.
India	Handle, store, transport and dispose of the product in accordance with applicable Indian workplace-safety, environmental, waste and transport requirements.
Other markets	Users and distributors are responsible for compliance with applicable local requirements in the country where the product is supplied or used.

16. OTHER INFORMATION

Item	Information
Product	DUSH ARENA DUO - PART A

Item	Information
System description	Two-component polyurethane adhesive designed for strong adhesion, isolation and flexibility.
Pack configuration	Part A: 8 kg; Part B: 2 kg.
Application summary	Mix Part A and Part B in the prescribed ratio and apply the mixed adhesive at approximately 2-8 mm using a suitable trowel. Install the stone/tile with a slight twisting action and maintain adequate contact. Follow the current TDS for complete application instructions.
Revision	Version 1.2
Issue date	21.04.2022
General disclaimer	The information in this Safety Data Sheet is based on product and safety information available at the date of issue and is intended for health, safety and environmental guidance. It does not constitute a product-performance warranty. Users are responsible for safe handling, compliance with applicable requirements and determining suitability for the intended use.



DUSH ARENA DUO

SAFETY DATA SHEET (SDS / MSDS)

Two-Component PU Adhesive

PART B - Hardener Component

Version 1.2 | Issue Date: 21.04.2022

1. IDENTIFICATION	
Item	Information
Product identifier	DUSH ARENA DUO - PART B
Product type	Two-component polyurethane adhesive - Hardener component
Relevant identified use	Component of a high-performance two-component polyurethane adhesive system for bonding marble, granite and natural stone to wood, plywood, glass, metal and other suitable substrates.
Uses advised against	Uses other than those recommended by or contrary to the current product technical instructions. Use only as the designated component of the DUSH ARENA DUO system.
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	
Item	Information
GHS classification	Skin Corrosion - Category 1B; Serious Eye Damage - Category 1; Skin Sensitization - Category 1.
Signal word	Danger
Hazard pictograms	 GHS05 / GHS07
Hazard statements	H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.
Additional classification information	Eye Damage - Category 1 (H318) is included in the mixture classification; H314 communicates the severe skin-burn and eye-damage hazard on the label.
Precautionary statements	P260 Do not breathe vapours/mist/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing. P310 Immediately call a POISON CENTER/doctor. P501 Dispose of contents/container in accordance with applicable regulations.

Item	Information
Other hazards	Avoid contact with skin and eyes. Prevent uncontrolled release to drains, soil and waterways.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical identity	CAS No.	Concentration
Proprietary polyamide / amide-based curing system	Proprietary	25-45%
Other proprietary fillers and additives	Proprietary	Balance

4. FIRST-AID MEASURES

Item	Information
Skin contact	Immediately remove contaminated clothing. Rinse affected skin with plenty of water, then wash thoroughly with soap and water. Obtain prompt medical attention for burns, persistent irritation or significant exposure.
Eye contact	Immediately rinse cautiously with clean water for several minutes while keeping eyelids open. Remove contact lenses if present and easy to remove. Continue rinsing and obtain immediate medical attention.
Inhalation	Move the affected person to fresh air and keep at rest. Obtain medical attention if symptoms occur.
Ingestion	Do not induce vomiting. Rinse mouth. Obtain immediate medical advice and show the product label or this SDS where possible.
Most important symptoms/effects	Severe skin burns, serious eye damage and allergic skin reaction may occur.
Immediate medical attention	Prompt medical evaluation is recommended after eye exposure, significant skin exposure or ingestion. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Item	Information
Suitable extinguishing media	Water spray, carbon dioxide, dry chemical or suitable foam, selected according to the surrounding fire.
Unsuitable extinguishing media	No specific restriction identified for normal firefighting conditions.
Specific hazards	Heating or burning may generate smoke, carbon oxides and other irritating or harmful decomposition products.
Protective equipment for firefighters	Use appropriate protective equipment and self-contained breathing apparatus where necessary.
Environmental precaution	Prevent contaminated firefighting water from entering drains, soil or watercourses.

6. ACCIDENTAL RELEASE MEASURES

Item	Information
Personal precautions	Wear suitable PPE. Keep unnecessary and unprotected persons away. Avoid skin and eye contact and unnecessary inhalation of vapours, mist or spray.
Environmental precautions	Prevent uncured material from entering soil, drains, surface water and waterways.
Containment and clean-up	Contain with suitable inert absorbent material. Collect contaminated material into appropriate labelled containers for authorised disposal. Clean the affected area without uncontrolled discharge to drains.
Reference to other sections	See Sections 8 and 13 for personal protection and disposal guidance.

7. HANDLING AND STORAGE

Item	Information
Safe handling	Avoid all unnecessary skin and eye contact. Do not breathe vapours, mist or spray. Do not eat, drink or smoke while handling. Provide adequate ventilation. Use chemical-resistant gloves and eye/face protection. Keep containers tightly closed when not in use.
Storage	Store in a cool, dry and adequately ventilated area. Protect from direct sunlight, excessive heat and contamination. Keep the container tightly closed when not in use.
storage condition	Store at 28-35 °C in a dry, well-ventilated environment. Keep tins tightly closed and protected from direct sunlight and external heat sources.
Shelf life	Best before 12 months when stored in accordance with recommendations.
Specific end use	Use only as the designated component of DUSH ARENA DUO and in accordance with the current TDS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Item	Information
Engineering controls	Provide adequate general ventilation. Use local exhaust where vapours or mist may be generated.

Item	Information
Eye / face protection	Chemical splash goggles and face protection where splashing may occur.
Hand protection	Chemical-resistant gloves. Nitrile gloves may be used where compatible with the formulation and exposure duration.
Skin / body protection	Protective work clothing and safety footwear. Remove contaminated clothing immediately.
Respiratory protection	Use adequate ventilation. Use suitable respiratory protection if ventilation is inadequate or vapour/mist exposure may occur.
Hygiene measures	Wash thoroughly after handling. Do not eat, drink or smoke in handling areas. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Item	Information
Physical state	Paste
Colour	White
Odour	Characteristic, pungent
Water solubility	Partially insoluble
Density	Mixed system: approximately 1.5 g/cm ³
Application temperature	12 °C to 28 °C

10. STABILITY AND REACTIVITY

Item	Information
Reactivity	Stable under normal recommended conditions of use and storage.
Chemical stability	Stable under recommended handling and storage conditions.
Possibility of hazardous reactions	No hazardous reactions expected during normal intended use when handled according to this SDS.
Conditions to avoid	Excessive heat, direct sunlight and prolonged exposure to elevated temperatures. Keep containers tightly closed.
Incompatible materials	Avoid contact with strong oxidising agents, strong acids and strong alkalis.
Hazardous decomposition products	Thermal decomposition or combustion may generate carbon oxides and other irritating decomposition products.

11. TOXICOLOGICAL INFORMATION

Item	Information
Skin corrosion / irritation	Skin Corrosion - Category 1B (H314): Causes severe skin burns and eye damage.
Serious eye damage / irritation	Serious Eye Damage - Category 1 (H318): Causes serious eye damage.
Skin sensitisation	Skin Sensitisation - Category 1 (H317): May cause an allergic skin reaction.
Likely routes of exposure	Skin contact, eye contact, inhalation of vapours or mists and accidental ingestion.
Expected symptoms / effects	Severe skin burns, serious eye damage and allergic skin reaction may occur following exposure.

12. ECOLOGICAL INFORMATION

Item	Information
Ecotoxicity	Prevent uncontrolled release of uncured material to the environment.
Persistence / degradability	Manage uncured material and residues to prevent environmental release.
Bioaccumulative potential	Handle and dispose of uncured material to minimise environmental exposure.
Mobility in soil	Prevent release of uncured material to soil and waterways.
PBT / vPvB	No PBT or vPvB concern is identified for the mixture.
Other adverse effects	Avoid release of uncured material into drains, soil, surface water or natural waterways.

13. DISPOSAL CONSIDERATIONS

Item	Information
Product disposal	Recover unused material where practical. Dispose of uncured product and residues through an authorised waste-management facility in accordance with applicable local and national requirements.
Packaging	Dispose of contaminated packaging through an authorised route. Do not reuse contaminated packaging for food or potable water.
Environmental precaution	Do not discharge uncured product into wastewater systems, drains or natural watercourses.

14. TRANSPORT INFORMATION	
Item	Information
UN number	UN 2735
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S.
Transport hazard class	Class 8 - Corrosive (ADR/RID, IMDG and IATA).
Packing group	II
Environmental hazards	Marine pollutant: No. Environmental pollutant: No. IMDG EmS: F-A, S-B.
Special precautions	Transport in securely closed original containers suitable for corrosive material. Keep packages secure, upright and protected from physical damage and excessive heat.

15. REGULATORY INFORMATION	
Item	Information
Hazard communication	Classification, signal word, hazard statements and precautionary statements are given in Section 2.
India	Handle, store, transport and dispose of the product in accordance with applicable Indian workplace-safety, environmental, waste and transport requirements.
Other markets	Users and distributors are responsible for compliance with applicable local requirements in the country where the product is supplied or used.

16. OTHER INFORMATION	
Item	Information
Product	DUSH ARENA DUO - PART B
System description	Two-component polyurethane adhesive designed for strong adhesion, isolation and flexibility.
Pack configuration	Part A: 8 kg; Part B: 2 kg.
Application summary	Mix Part A and Part B in the prescribed ratio and apply the mixed adhesive at approximately 2-8 mm using a suitable trowel. Install the stone/tile with a slight twisting action and maintain adequate contact. Follow the current TDS for complete application instructions.
Revision	Version 1.2
Issue date	21.04.2022
General disclaimer	The information in this Safety Data Sheet is based on product and safety information available at the date of issue and is intended for health, safety and environmental guidance. It does not constitute a product-performance warranty. Users are responsible for safe handling, compliance with applicable requirements and determining suitability for the intended use.