Product Data Sheet

ASMACO POXY TA

High-grade, epoxy adhesive with no vertical slip, ceramic tiles and stone on horizontal and vertical surfaces.

DESCRIPTION: ASMACO POXY TA is a high-performance, solvent-free, thixotropic, two-component tile adhesive formulated with a blend of epoxy resins and specially selected high-strength fillers. This adhesive is engineered to provide exceptional bonding strength and durability, making it ideal for demanding applications. Its robust formulation ensures reliable performance even in extreme hot and tropical climates, providing a long-lasting solution for both residential and commercial tile installations. ASMACO POXY TA is versatile, offering excellent adhesion for a wide range of ceramic tiles and stone materials, with the added benefit of non-sag properties for easy application on vertical surfaces.



KEY PERFORMANCE PROPERTIES

- **Non-Absorbent and Easy to Clean:** The material is non-absorbent, ensuring that it remains easy to clean even in challenging environments.
- **Chemical Resistance** to a wide range of chemicals, including various acids, lye, grease, and oil, making it suitable for industrial and commercial applications.
- **Water Impermeable and Vapor Barrier a**cts as a water-impermeable barrier, protecting moisture-sensitive substrates from water and moisture damage.
- **High Wear Resistance** to rolling and grinding loads, ensuring durability under heavy mechanical stress. It is also insensitive to steam jet cleaning, making it ideal for industrial cleaning processes.
- **Hygienic Properties w**ill not support bacterial growth, making it particularly suitable for use in kitchens and swimming pools.
- **Crack-Free Curing,** the product cures and sets without cracking or shrinking, with very high adhesion to joint sides.
- **Weather and Frost Resistance** to frost and weathering, allowing for multipurpose use in both vertical and horizontal applications, indoors and outdoors.
- **High Mechanical Strength** provides good adhesion to joint sides and has a low modulus of elasticity, making it superior to cement-based joint grouts.
- **Ease of Application** workable and easy to apply, suitable for joint widths from 2 to 10 mm, and produces smooth, low-pore joint surfaces that are easy to clean.
- **Low Odour** almost odourless during application, ensuring a more comfortable working environment.
- **Easy to Clean Tools,** all tools and equipment used during application can be easily cleaned with warm water.

This product is designed to meet the needs of demanding applications, offering a combination of chemical resistance, mechanical strength, and ease of maintenance, making it suitable for a wide range of industrial and commercial uses.

AREAS OF APPLICATION

- **Indoor and Outdoor Use:** Suitable for both indoor and outdoor environments, providing flexibility in application.
- **Walls and Floors:** Applicable for both wall and floor installations, making it ideal for comprehensive tiling projects.
- **Chemical-Resistant and Water-Impermeable:** For Chemical-Resistant and Water-Impermeable Laying.
- **Wall and Floor Coverings:** Ceramic tiles, mosaic, and bricks can be laid and grouted on various substrates, including renders, cement screeds, concrete, and timber chipboards.
- **Specialized Industrial Environments:** Suitable for ceramic coverings in dairies, bakeries, soft drink industries, industrial kitchens, canteens, butcheries, slaughterhouses, fat processing industries, battery rooms, galvanization, electrical substations, plant rooms, dye works, bleaching works, tanneries, paper mills, laboratories, and hospitals.
- **Swimming Pools and Wellness Areas:**
- **Laying of Ceramic Tiles:** Effective for use in swimming pools, hot springs, baths in hospitals, shower facilities, and wellness areas, due to its water-impermeable properties.
- **Public and Industrial Buildings:**
- **Ceramic Tiles in Various Buildings:** Can be used in administration buildings, hotels, schools, toilets, sewage plants, sewers, cattle stabling, and on stairs exposed to de-icing salts. Primary Features:
- **High Chemical Resistance:** Suitable for areas requiring a high degree of chemical resistance.
- **High Mechanical Properties:** Ensures durability and longevity in demanding environments.

NOTE:
This product is ideal for environments where durability, chemical resistance, and water impermeability are essential.
Epoxy-based tile adhesives are known for their exceptional bonding strength, water and chemical resistance, and durability,

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METHOD OF APPLICATION

making them ideal for areas prone to moisture, heavy foot traffic, or chemical exposure. Here's a step-by-step guide on the application method for epoxy-based tile adhesive:

Substrate Preparation:

Ensure the substrate is fully cured, structurally sound, dry, and free from loose materials, grease, oil, paint, wax, or similar contaminants. Cementitious substrates must be stable and cured to prevent post-application shrinkage. For optimal curing, allow at least one week per centimeter of thickness in favorable weather, unless using a special binder for faster curing. Failure to follow these steps may weaken **ASMACO POXY TA's** bond to the substrate. For ferrous surfaces, remove any rust through sand-blasting. On gypsum, plasterboard, or anhydrite surfaces, reinforce the substrate with a layer of **ASMACO PRIME P2 SF** primer.

Mix Preparation:

ASMACO POXY TA is supplied in pre-measured containers:

- **Part A**: Grey and white, 80 parts by weight
- **Part B**: Beige, 20 parts by weight

The specified mixing ratio is crucial to ensure proper hardening; altering it can compromise product performance. Pour Part B (hardener) into Part A and mix thoroughly until a smooth, uniform paste is achieved. For best results, use a low-speed electric mixer to ensure optimal bonding and avoid overheating, which can reduce workability. The mix should be used within 45 minutes.

Application:

Apply the adhesive to the substrate with a notched trowel. For special tile shapes like tourelle, back-butter the tiles by filling gaps on the underside with **ASMACO POXY TA** before laying. Press the tiles firmly to ensure full adhesion. Once cured, the bond will be extremely durable.

Set the Tile

Place the Tile:

- Press the tile firmly into the adhesive, twisting slightly to ensure proper bedding.

Spacing:

- Use spacers between tiles to achieve uniform grout lines.

Adjustments:

- Make any adjustments within a few minutes of placement, as epoxy adhesive starts to set quickly.

Cleaning Excess Adhesive

Epoxy adhesive, once dried, is difficult to remove. Wipe Excess Adhesive:

- Use a damp sponge or cloth in warm water to clean off any adhesive that seeps into the joints or on the tile surface immediately.

Regular Cleaning:

- Continue wiping excess adhesive as you work. Rinse and clean the sponge frequently to prevent smearing.

Curing Time

- Allow the epoxy to cure according to the ambient temperature, which may take from a few hours to a full day. During this time, avoid foot traffic or any load on the tiles.
- Continue wiping excess adhesive as you work. Rinse and clean the sponge frequently to prevent smearing.

The hardening time varies with temperature: at +23°C, the product remains workable for around 45 minutes, with shorter working times at higher temperatures.

Safety Tips

Ventilation:

- Epoxy products can emit strong fumes; work in well-ventilated areas.

Protective Gear:

- Always wear gloves, goggles, and a mask to avoid skin and eye contact with the adhesive.
- Following these steps will help ensure a durable, high-quality installation with epoxy-based tile adhesive.

PACKAGING

6 Kg Set (A+B). Part A, 4.8 Kg, Part B, 1.2 Kg

COVERAGE RATE

ASMACO POXY TA is 1.74 Kg /m²/1mm thickness**.**

STANDARDS

- ASMACO POXY TA meets the classification requirements **RG Class according to EN 13888**
- ASMACO POXY TA meets the classification requirements **R2T Class according to EN 12004**
- ASMACO POXY TA meets the classification requirements **ANS I 118.3**

CLEAN UP

ASMACO POXY TA bonds strongly even to metal. We therefore recommend that tools are cleaned with solvent (ethanol, toluene, etc.) before the product hardens.

STORAGE & SHELF LIFE

Store in cool place under cover, out of direct sunlight and protect from extreme temperatures. In tropical climate the product must be stored in air – conditioned environment (<25° C). The shelf life is up to 12 months in unopened conditions if stored as per

HEALTH & SAFETY

ASMACO POXY TA Component A is irritant for the skin and for the eyes, Component B is corrosive and may cause serious burns and damages to eyes.

Both components A and B can cause sensitization to the skin in those subject sensitive to such substance. The product contains low molecular weight epoxy resins that may cause sensitization if cross-contamination occurs with other epoxy compounds.

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TYPICAL PROPERTIES

PROPERTIES	TYPICAL VALUES	TEST STANDARDS
Mixed (A+B) Color	Grey	—
Pot Life Mixed @ 25°C	45 min	—
Open Time	60 min	—
Adjustment Time	>120 min	—
Application Temperature	±0°C +30°C	—
Service Temperature	-20°C +100°C	—
Initial Curing Time @ 25°C	8 -12 Hours	—
Light Foot Traffic @25°C after	12 - 15 Hours	—
Open for Traffic @25°C after	48 hours	—
Resistance to Humidity	Excellent	—
Resistance to ageing	Excellent	—
Resistance to solvent and oils	Good	—
Resistance to Acid & Alkalis	Good	—
Mixed Density, g/m³	1.74 ±0.02	ASTM D 1475
Compressive Strength @ 7 Days	>80 N/mm²	ANSI 118.3:2021, ASTM C 579 - 2023
Sag Test	No Change were observed	ANSI 118.3:2021
Initial Setting Time	8 hours	ANSI 118.3:2021, ASTM C 308:2023
Slip	< 0.1 mm	BS EN 12004-2:2017
Water Absorption after 240 minutes	0.03 g	BS EN 13888-2:2022

Note: The values provided are based on laboratory tests; actual values obtain on-site may vary. All stated values are subject to a tolerance of 5-10%.

CERTIFICATIONS

Regional Compliance Notice

Please note that regulatory requirements may vary from one region to another. As a result, product information and recommended applications may differ between countries. For accurate and up-to-date details on product specifications and approved uses, and for any technical guidance, please contact ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE. Technical Department.

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