



ABOUT ANCHOR 507

ANCHOR 507 is a multipurpose, high-performance, polymer-modified adhesive specially formulated for the installation of large-format and slim tiles on a wide range of substrates. With its partially lightweight composition and exceptional flexibility, it is suitable for both horizontal and vertical applications across interior and exterior environments.

ANCHOR 507 exceeds the performance standards-

IS 15477:2019 (Type 3TS1)

EN 12004/ISO 13007 C2E T S1

ANSI A118.4ET

SURFACE APPLICATION MATERIALS

- | | |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|  Slim porcelain large format tiles |  Brick |
|  Vitreous, semi-vitreous, or non-vitreous tiles |  Cement-based precast terrazzo |
|  Ceramic tiles |  Natural stone tiles |
|  Quarry tiles |  Cement body tiles |

RECOMMENDED: SURFACES / SUBSTRATES

- | | |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|  Concrete & concrete masonry |  Cement terrazzo |
|  MIVON concrete, VDF, precast concrete |  Calcium silicate board |
|  Cement mortar beds & plaster |  Gypsum wall board |
|  Ceramic, vitrified tile & natural stone |  Brick masonry |
|  Glass mosaic tile |  Cement backer board |

APPLICATION AREAS

- | | |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Tile-over-tile applications |  Commercial applications |
|  Flooring and walls (internal and external) |  External shaded and open areas |
|  Terraces, balconies, and podium decks |  New construction and renovation projects |
|  Wet areas like pools, water bodies, and spa zones |  Residential dry and wet areas (washrooms, saunas, spas, fountains, swimming pools) |

PRODUCTS HIGHLIGHTS

- ❖ **LIGHTWEIGHT FORMULA** – Offers 15% higher coverage than standard adhesives, maximizing efficiency.
- ❖ **HIGH-STRENGTH ADHESION** – Enhanced durability through advanced polymer modification.
- ❖ **EXTENDED OPEN TIME** – Provides flexibility for efficient installation, making it easier to position large-format tiles accurately.
- ❖ **NON-SAG & NON-SLUMP** – Perfect for applying large-format tiles on walls and floors without concerns of movement.
- ❖ **CRACK-RESISTANT** – Designed to help prevent crack propagation, ensuring long-lasting durability.
- ❖ **IMPACT-RESISTANT** – Delivers a cushioning effect for tiles, enhancing resilience against damage.
- ❖ **EXCEEDS ANSI A118.4 STANDARDS** – Ensures superior shear bond strength for reliable performance.
- ❖ **COMPLIES WITH EN/ISO (C2TES1)** – Meets international standards for professional-grade adhesive performance.
- ❖ **SURPASSES IS 15477-TYPE 3/TS1** – Designated as a high-performance adhesive for various applications.

TECHNICAL DETAILS

ANSI DATA

PROPERTY	TEST METHOD	REQUIREMENT	ANCHOR 507 VALUES
Open Time (30 Minutes at 28°C)	ANSI A118.4 Clause 5.3	≥75 psi (0.50 MPa)	45 – 50 Minutes
Sag	ANSI A118.4 Clause 6.0	≤0.02 Inches (0.50 mm)	0.009 – 0.014 Inches (0.20–0.30 mm)
Glazed Wall Tile Shear Strength (7 Days)	ANSI A118.4 Clause 7.1.2	>300 psi (2.07 MPa)	355–380 psi (2.45 – 2.62 MPa)
7 Days Water Immersion	ANSI A118.4 Clause 7.1.3	>200 psi (1.38 MPa)	255–280 psi (1.75 – 1.93 MPa)
Porcelain Mosaic Tile Shear Strength (1 Day)	ANSI A118.4 Clause 7.2.2	>75 psi (0.50 MPa)	127 – 177 psi (0.88 – 1.22 MPa)
Porcelain Mosaic Tile Shear Strength (7 Days)	ANSI A118.4 Clause 7.2.3	>200 psi (1.38 MPa)	277 – 327 psi (1.91 – 2.25 MPa)
7 Days Water Immersion	ANSI A118.4 Clause 7.2.4	>150 psi (1.03 MPa)	230 – 280 psi (1.59 – 1.93 MPa)
28 Days	ANSI A118.4 Clause 7.2.5	>200 psi (1.38 MPa)	302 – 352 psi (2.08 – 2.42 MPa)
28 Days Freeze-Thaw Cycling	ANSI A118.4 Clause 7.2.5	>175 psi (1.20 MPa)	277 – 327 psi (1.91 – 2.26 MPa)
12 Weeks	ANSI A118.4 Clause 7.2.7	>200 psi (1.38 MPa)	302 – 352 psi (2.08 – 2.42 MPa)
Quarry Tile Shear Strength (28 Days)	ANSI A118.4 Clause 7.3.2	>150 psi (1.03 MPa)	250 – 300 psi (1.72 – 2.06 MPa)
28 Days Freeze-Thaw Cycling	ANSI A118.4 Clause 7.3.3	>100 psi (0.69 MPa)	200 – 250 psi (1.37 – 1.72 MPa)

EN / ISO DATA

PROPERTY	TEST METHOD	REQUIREMENT	ANCHOR 507 VALUES
Open Time	EN 1346	$\geq 0.50 \text{ N/mm}^2$	42 – 47 Minutes
Slip Resistance	EN 1308	$\leq 0.50 \text{ mm}$	0.22 – 0.32 mm
Tensile Adhesion Strength – Initial	EN 1348 – Clause 8.2	$\geq 1.00 \text{ N/mm}^2$	1.53 – 2.02 N/mm ²
Tensile Adhesion Strength – Water Immersion	EN 1348 – Clause 8.3	$\geq 1.00 \text{ N/mm}^2$	1.27 – 1.79 N/mm ²
Tensile Adhesion Strength – Heat Aging	EN 1348 – Clause 8.4	$\geq 1.00 \text{ N/mm}^2$	1.30 – 1.55 N/mm ²
Tensile Adhesion Strength – Freeze-Thaw	EN 1348 – Clause 8.5	$\geq 1.00 \text{ N/mm}^2$	1.55 – 2.05 N/mm ²

IS DATA

PROPERTY	TEST METHOD	REQUIREMENT	ANCHOR 507 VALUES
Shear Adhesion Strength – Dry Conditions (28 Days)	Annex B (Clause 5.2)	$\geq 1.50 \text{ N/mm}^2$	1.75 – 2.00 N/mm ²
Shear Adhesion Strength – Heat Ageing (14 Days Std + 14 Days Oven)	Annex B (Clause 5.2)	$\geq 1.00 \text{ N/mm}^2$	1.25 – 1.50 N/mm ²
Shear Adhesion Strength – Wet Conditions (7 Days Std + 21 Days Water)	Annex B (Clause 5.2)	$\geq 1.00 \text{ N/mm}^2$	1.30 – 1.55 N/mm ²
Tensile Adhesion Strength – Dry Conditions (28 Days)	Annex A (Clause 5.1)	$\geq 1.50 \text{ N/mm}^2$	1.50 – 2.00 N/mm ²
Tensile Adhesion Strength – Wet Conditions (7 Days Std + 21 Days Water)	Annex A (Clause 5.1)	$\geq 1.00 \text{ N/mm}^2$	1.25 – 1.75 N/mm ²

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION GUIDELINES

1. **CLEAN & STABLE SURFACE** – Substrates must be structurally sound, clean, and free from dirt, oil, grease, curing compounds, or any loose particles that may hinder adhesion.
2. **EVEN & LEVEL BASE** – Floor substrates should not vary more than 1/8" in 10 ft (3 mm in 3 m) or 1/16" in 24" (2 mm in 60 cm) to prevent tile cracking or misalignment.
3. **DRY & MOISTURE-CONTROLLED** – Surfaces must be dry, free from efflorescence, and not subject to hydrostatic pressure. Moisture control is vital for proper bonding.
4. **PRE-WET IF NECESSARY** – For dry, dusty, or absorbent surfaces, lightly dampen the area without leaving standing water before tile application.
5. **CURE NEW CONCRETE** – New concrete must be cured for 28 days unless latex additive is used. Damp curing is recommended for optimal performance.
6. **PRESERVE EXPANSION JOINTS** – Do not cover or fill expansion joints with adhesive. Use flexible sealants as per ANSI AN-3.8 or TCA EJ171 standards.

HOW TO MIX THE ADHESIVE

1. **MIXING RATIO** – Use 5.5 – 6 liters of clean water for each 20 kg bag of ANCHOR 507 powder.
2. **BLENDING PROCESS** – Add powder to water in a clean mixing container. Mix using a low-speed paddle mixer until a smooth, paste-like consistency is achieved.
3. **RESTING PERIOD** – Let the mixture slake for 5–10 minutes, then remix without adding water before use.
4. **APPLICATION CAUTION** – Use only the quantity of adhesive that can be applied within 4–5 hours of mixing (pot life). Avoid remixing with additional water.

STEP-BY-STEP TILE APPLICATION GUIDE

1. SURFACE PREPARATION

- skim coat of adhesive using the flat side of a notched trowel.
- Comb additional adhesive in one direction using the notch side at a 45° angle.
- Recommended Trowel Sizes:
 - Small tiles (<30x30 cm): 6 mm
 - Medium tiles (30x60 cm): 8–10 mm
 - Large tiles (60x60 cm): 10–12 mm
 - Back-buttering is mandatory for large tiles.

2. TILE PLACEMENT

- Time-Sensitive Application: Set tiles within 40–45 minutes of adhesive application.
- Skin Formation Check: If adhesive skins over, re-comb or replace with fresh mortar.
- Firm Pressing: Press tiles into mortar bed using a perpendicular motion across ridges.

3. ACHIEVING FULL ADHESION

- Back-Buttering: Always back-butter large or thin tiles for full contact.
- Avoid Voids: Ensure 100% adhesive coverage to prevent hollow spots and water infiltration.

4. SPACING & CLEANING

- Use Spacers: Maintain uniform gaps between tiles.
- Remove Excess: Clean mortar from tile surface and joints before hardening.

5. SPECIAL CONSIDERATIONS

- Wall Installations: Provide temporary support if necessary during setting.
- Back-Mesh Tiles: Remove mesh and epoxy before installation for a strong bond.
- Porous Surfaces: Consult technical support for unusual or non-standard substrates.

PRO TIPS & PRECAUTIONS

- ✓ Do not allow foot traffic for 16–24 hours after installation.
- ✓ Never add sand, cement, or excess water to the mix.
- ✓ Only mix what can be used within the working time.
- ✓ For external applications, use edge-leveling systems to minimize slippage.
- ✓ Beat tile using a rubber mallet or orbital sander for proper adhesion.
- ✓ For installations over 3 meters in height, consider using mechanical support.

PRODUCT SPECIFICATIONS & STORAGE GUIDELINES

AVAILABLE PACKAGING

- Grey: 20 kg bag
- White: 20 kg bag

SHELF LIFE:

- 12 months from manufacturing date if stored properly in sealed packaging.

STORAGE LIFE:

- Store in a dry, cool place (10°C to 30°C).
- Keep away from direct sunlight and high humidity.
- Avoid exposure to temperatures below 5°C or above 35°C.
- Discard if the bag is torn or the contents hardened.

GROUTING INSTRUCTIONS

- 1. WAITING TIME** – Grout after 24–48 hours curing time at 70°F (21°C).
- 2. RECOMMENDED GROUTS**
 - Internal joints: Use HYDAPOXY 711 , HYDAPOXY 712 or cement grout with HYDAAMIX 141.
 - External joints: Use HYDAPOXY UV 10 Grout for flexibility and UV resistance.
- 3. APPLICATION TIP** – Use appropriate spacers during tile installation to maintain uniform joint gaps.

COVERAGE DETAILS

20 kg Bag Coverage:

- 3 mm thickness: 4–5 m² using a 6×6 mm notched trowel
- 6 mm thickness: 1.5–2.5 m² using a 12×12 mm notched trowel

FACTORS AFFECTING COVERAGE:

- Trowel size & application technique
- Tile size & material
- Surface smoothness & porosity

SAFETY & APPLICATION GUIDELINES FOR ANCHOR 507

1. PERSONAL PROTECTION

- Wear protective gloves, clothing, and eye/face protection while handling.
- Keep out of reach of children at all times.
- For professional use only – not for consumer DIY applications.

2. EMERGENCY PROCEDURES

- Skin Contact: Wash immediately with plenty of clean water.
- Eye Contact: Rinse thoroughly with water for 15 minutes and seek medical attention.

3. MIXING INSTRUCTIONS

- Always add powder to water – never reverse the order.
- Use 5.5 – 6 L of water for a 20 kg bag.
- Allow mixture to slake for 5–10 mins, then restir.
- Do not remix with added water once mixed.

4. SURFACE PREPARATION

- Surfaces must be dry, level, and free of dust, grease, sealers, or curing agents.
- Not suitable for fresh concrete – ensure minimum 28 days curing (unless mixed with latex additive).
- For uneven surfaces (>15 mm), use levelling compound.
- Remove demolding wax, epoxy mesh backing, and ensure proper substrate flatness.

5. INSTALLATION & PROTECTION

- Maintain ambient temperature between 50°F–100°F (10°C–38°C).
- Protect tiles from rain, foot traffic, and heavy loads for 24 hours post-installation.
- Back-buttering is mandatory for large format tiles.
- Use mechanical edge-leveling systems to reduce slippage.
- Beating tiles with an orbital sander or rubber mallet improves bonding.
- Do not use mortar to level floors.

PERFORMANCE LIMITATIONS

- Not self-leveling – use leveling materials as needed.
- Environmental conditions affect curing time.
- Conduct a test area for bonding performance, especially on difficult substrates.
- Do not cover expansion joints with adhesive.
- Use compatible grout and movement joints for external applications.

-End of TDS