



HYDA CON
Innovative chemical solutions

Technical Data Sheet

HYDAADMIX 141

Polymer Grout Admix

ABOUT HYDAADMIX 141

HYDAADMIX 141 is a high-performance, polymer-based grout admix designed to be used in place of water when mixing with cementitious grouts like the HYDAGROUT 100 Series. Engineered to improve the overall performance, durability, and ease of maintenance of grouts, it enhances flexibility, inhibits cracking and shrinkage, and ensures a dense, colour-fast grout joint.

HYDAADMIX 141 inhibits the growth of stain-causing bacteria, mould, and mildew—making it ideal for hygienic and long-lasting tile installations in both interior and exterior environments.

HYDAADMIX 141 complies with international standards **ANSI A118.6** and **ISO 13007-4 (CG1) / EN 13888** when used with the appropriate HYDA CON Unsanded grout, offering water, shock, and weather resistance with long-term flexibility and colour retention.

SURFACE APPLICATION MATERIALS

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|  Natural & Artificial Stones |  Tiles & Others |
|  Granite & Marble |  Ceramic Tiles |
|  Engineered Stones (Agglomerates) |  Vitrified Tiles |
|  Precast Terrazzo Tiles |  Glass Mosaic Tiles |
|  Bricks | |

RECOMMENDED SURFACES/SUBSTRATES

- | | |
|---|--|
|  Cement-based screeds and mortar beds |  Existing tiled or stone surfaces |
|  Cement-plastered or rendered surfaces |  Waterproofing-treated areas |
|  Concrete surfaces |  Other cementitious substrates |
|  Drywall panels (cement, bison, gypsum boards) | |

APPLICATION AREAS

- | | |
|--|---|
| <ul style="list-style-type: none">  Floor and wall joints (interior and exterior)  Dry and wet areas (bathrooms, spas, fountains, swimming pools)  Terraces, balconies, and podium decks | <ul style="list-style-type: none">  Residential and commercial tile installations  Renovation projects and tile-on-tile installations |
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PRODUCT HIGHLIGHTS

- ❖ **EXCELLENT DURABILITY** – Strengthens grout joints and improves their resistance to cracking and shrinkage.
- ❖ **WATER & SHOCK RESISTANT** – Ideal for wet zones and high-impact areas.
- ❖ **SUPERIOR FLEXIBILITY** – Accommodates thermal and mechanical movement in substrates.
- ❖ **EASY APPLICATION & CLEAN-UP** – Enhances workability of grout and simplifies post-installation maintenance.
- ❖ **NON-CRACKING & NON-SHRINKING** – Ensures long-lasting and structurally sound joints.
- ❖ **COLOUR-FAST & STAIN RESISTANT** – Maintains vibrant grout appearance while resisting discoloration.
- ❖ **MICROBAN PROTECTION** – Helps prevent growth of mould, mildew, and bacteria in grout joints.
- ❖ **LOW VOC** – Contributes to healthier indoor environments for both installers and end users.

TECHNICAL DETAILS

ANSI DATA

PROPERTY / TEST	METHOD	REQUIREMENT	HYDAADMIX 141 VALUES
Linear Shrinkage (after 27 days)	ANSI A118.6: Clause 4.3	Max 0.30%	0.20% – 0.25%
Water Absorption (after 27 days)	ANSI A118.6: Clause 4.4	Max 18%	9% – 15%
Compressive Strength (after 1 day)	ANSI A118.6: Clause 4.5	Min 500 psi (3.43 MPa)	575 – 905 psi (3.95 – 6.20 MPa)
Compressive Strength (after 28 days)	ANSI A118.6: Clause 4.5	Min 3000 psi (20.62 MPa)	3100 – 3200 psi (21.31 – 22.00 MPa)
Tensile Strength (after 28 days)	ANSI A118.6: Clause 4.6	Min 250 psi (1.71 MPa)	364 – 436 psi (2.50 – 2.75 MPa)
Flexural Strength (after 28 days)	ANSI A118.6: Clause 4.7	Min 500 psi (3.43 MPa)	617 – 873 psi (24 – 6 MPa)

EN DATA

PROPERTY / TEST	METHOD	REQUIREMENT	HYDAADMIX 141 VALUES
Abrasion Resistance	EN 12808-2	$\leq 2000 \text{ mm}^3$	1050 – 1550mm ³
Flexural Strength (Standard Conditions)	EN 12808-3	$\geq 2.5 \text{ N/mm}^2$	3.0 – 4.5 N/mm ²
Flexural Strength (Freeze/Thaw Cycles)	EN 12808-3	$\geq 2.5 \text{ N/mm}^2$	3.7– 5.2 N/mm ²
Compressive Strength (Standard Conditions)	EN 12808-4	$\geq 15 \text{ N/mm}^2$	20– 21N/mm ²
Compressive Strength (Freeze/Thaw Cycles)	EN 12808-4	$\geq 15 \text{ N/mm}^2$	21 – 23 N/mm ²
Shrinkage	EN 12808-4	$< 3 \text{ mm/m}$	1.9 – 2.3 mm/m
Water Absorption (after 30 minutes)	EN 12808-5	$\leq 5.0 \text{ g}$	2.0 – 2.5g
Water Absorption (after 240 minutes)	EN 12808-5	$\leq 10 \text{ g}$	5.0 – 7.0 g

ISO DATA

PROPERTY / TEST	METHOD	REQUIREMENT	HYDAADMIX 141 VALUES
Abrasion Resistance	ISO 13007-4: Clause 4.4	$\leq 2000 \text{ mm}^3$	1050 – 1550 mm ³
Flexural Strength (Standard Conditions)	ISO 13007-4: Clause 4.1.3	$\geq 2.5 \text{ N/mm}^2$	3.0 – 4.5 N/mm ²
Flexural Strength (Freeze/Thaw Cycles)	ISO 13007-4: Clause 4.1.5	$\geq 2.5 \text{ N/mm}^2$	3.7– 5.2 N/mm ²
Compressive Strength (Standard Conditions)	ISO 13007-4: Clause 4.1.4	$\geq 15 \text{ N/mm}^2$	20 – 21 N/mm ²
Compressive Strength (Freeze/Thaw Cycles)	ISO 13007-4: Clause 4.1.5	$\geq 15 \text{ N/mm}^2$	21– 23 N/mm ²
Shrinkage	ISO 13007-4: Clause 4.3	$< 3 \text{ mm/m}$	1.9 – 2.3 mm/m
Water Absorption (after 30 minutes)	ISO 13007-4: Clause 4.2	$\leq 5.0 \text{ g}$	2.0 – 2.5 g
Water Absorption (after 240 minutes)	ISO 13007-4: Clause 4.2	$\leq 10 \text{ g}$	5.0 – 7.0 g

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION GUIDELINES

1. **CLEAN & STABLE SURFACE** – Ensure the substrate is structurally sound and free from dust, oil, grease, curing agents, sealers, and loose particles. Remove any contaminants mechanically before proceeding with application.
2. **EVEN & LEVEL BASE** – The surface must be flat with a maximum variation of 3 mm over 3 meters (1/8" in 10 ft) or 2 mm over 600 mm (1/16" in 24"). Uneven surfaces increase the risk of tile cracking, especially with larger tiles.
3. **DRY & MOISTURE-CONTROLLED** – Substrates must be dry. Use a water drop test: if absorbed, it's ready. If water beads up, clean thoroughly to remove contaminants.
4. **PRE-WET IF NECESSARY** – Dampen dusty concrete or masonry slightly before application. Avoid standing water.
5. **CURE NEW CONCRETE** – Concrete should be cured for a minimum of 28 days to avoid shrinkage or instability.
6. **PRESERVE EXPANSION JOINTS** – Maintain expansion and movement joints. Do not cover with adhesive; instead, use flexible sealants.

HOW TO MIX HYDAADMIX 141

1. **BLENDING PROCESS** – Use a clean container and a slow-speed mixer (<300 rpm). Mix until a smooth, lump-free consistency is achieved.
2. **RESTING PERIOD** – Allow the mix to slake for 5–10 minutes. Re-stir before use. Never add water after the mix has started to set.
3. **APPLICATION CAUTION** – Prepare only the quantity usable within the pot life. Avoid remixing or adding extra water.

PRO TIPS & PRECAUTIONS

- ✓ Protect tiled areas from moisture and traffic for 24 hours after installation.
- ✓ Do not modify **HYDAADMIX 141** with external additives.
- ✓ Maintain proper water-to-powder ratio for bonding strength.
- ✓ Use mechanical support systems for installations higher than 3 meters.
- ✓ Add powder to water, not vice versa.
- ✓ Avoid using **HYDAADMIX 141** as a surface leveler.
- ✓ Ensure surfaces are cured and dry before application.

PRODUCT SPECIFICATIONS & STORAGE GUIDELINES

AVAILABLE PACKAGING:

- 5 Ltr (4x5 Ltr) Carton
- 400 ml (10x400 ml) Carton
- 200 ml (20x200 ml) Carton

SHELF LIFE:

24 months from manufacturing date if stored in original, unopened packaging.

STORAGE CONDITIONS:

- Store in cool, dry area (10–30°C)
- Avoid direct sunlight, moisture, or freezing conditions
- Discard product if packaging is damaged or contents hardened

GROUTING INSTRUCTIONS

- 1. WAITING TIME:** Begin grouting after 24–48 hours of curing at standard conditions (21°C).
- 2. RECOMMENDED PRODUCTS:**
 - For best results, use with unsanded HYDAGROUT 100.
 - For stain-resistant or outdoor applications, select appropriate HYDAPOXY variants.
- 3. APPLICATION TIP:** Ensure consistent joint gaps and remember: grout is not waterproofing. Use a membrane if waterproofing is required.

COVERAGE DETAILS

- Unsanded Grout: 375–400 ml/kg
- Coverage may vary depending on trowel size, tile dimension, and surface condition.

SAFETY & APPLICATION GUIDELINES HYDAADMIX 141

1. PERSONAL PROTECTION

- Wear gloves, safety goggles, and protective clothing.
- Keep away from children. For professional use only.

2. EMERGENCY PROCEDURES

- Skin Contact: Wash thoroughly with clean water.
- Eye Contact: Rinse with water for at least 15 minutes and seek medical help.

3. MIXING GUIDELINES

- Always add powder to **HYDAADMIX 141**—never the reverse.
- Do not exceed water ratio or add foreign additives.

4. SURFACE PREPARATION

- Ensure substrate is dry and fully cured (minimum 28 days).
- Uneven surfaces should be levelled using approved levelling compounds.

PERFORMANCE LIMITATIONS

- Environmental conditions may affect curing time
- Always conduct a patch test on site for uncertain surfaces.

-End of TDS