



MyBASE – Technical Data Sheet

Two-Component Polymer-Cement Base Layer for Microcement Systems

Product Description:

MyBASE is a high-performance, two-component polymer-cement system designed for indoor use as a substrate reinforcement and heavy-duty base layer. It creates seamless, durable foundations on existing interior substrates such as cement screeds, anhydrite screeds, concrete, tile, and OSB boards. MyBASE serves as the essential foundational layer prior to applying fine finish coats on floors, walls, countertops, and custom furniture.

Key Features

- **Superior Adhesion:** Engineered for exceptional bond strength across a wide range of standard building substrates.
- **Substrate Reinforcement:** Formulated specifically for embedment with fiberglass mesh to bridge micro-cracks and prevent reflection cracking.
- **High Durability:** Delivers excellent impact resistance, high abrasion resistance, and moisture tolerance once fully cured.
- **Versatile Application:** Ideal for residential floors, high-traffic commercial spaces (restaurants, retail, offices), wet areas, and architectural millwork.

Technical Specifications

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Estimated Material Consumption

Property	Value	Value (Metric Equivalent)
System Thickness	60 – 80 mils (~1/16 in.)	1.5 – 2.0 mm
Maximum Layer Thickness	40 mils per coat	1.0 mm per coat
Mixing Ratio (by weight)	1 part MyBASE Liquid to 2.5 – 3.5 parts MyBASE Powder	1 : 2.5 – 3.5
Application Temperature	59°F to 77°F	15°C to 25°C
Substrate Moisture Limit	Max 3% (Cementitious); Max 0.5% CM (Anhydrite); Max 0.3% CM (Radiant Heating)	Same
Drying / Recoat Time	~4 hours at 68°F (50% RH) before sanding or next coat	~4 hours

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Process/Layer	Components	Coverage Rate (lbs/sq ft)	Approximate Yield
Priming	MyPRIMER	0.04 – 0.06 lbs / sq ft	16 – 25 sq ft / lb
1st Coat MyBASE	MyBASE + Fiberglass Mesh	0.20 – 0.25 lbs / sq ft	4 – 5 sq ft / lb
2nd Coat MyBASE	MyBASE	0.10 – 0.16 lbs / sq ft	6.25 – 10 sq ft / lb

> **Note:** Material consumption depends heavily on substrate porosity, texture, and application technique. Batch components **MUST** be measured using a precise electronic scale to ensure exact chemical cross-linking.

Application Instructions

1. Substrate Preparation

- The substrate must be structurally sound, clean, dry, and free from dust, wax, oil, grease, paint, or loose material.
- Remove cement laitance, weak concrete, or old sealers by mechanical grinding or shot-blasting.
- Turn off underfloor radiant heating systems at least 72 hours prior to application and keep off during installation.

2. Priming

- Apply **MyPRIMER** evenly using a microfiber roller or brush (1 to 2 coats depending on surface absorption).
- Allow the primer to dry completely (2 to 4 hours) before applying MyBASE.

3. Mixing

1. Shake the **MyBASE Liquid** component thoroughly before opening.
2. Pour the liquid into a clean mixing bucket and agitate with a low-speed mixer for 30 seconds.

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3. Gradually add the **MyBASE Powder** while continuously mixing at low speed (~300–400 RPM) for 3 minutes until a smooth, lump-free paste is achieved.
4. Let the mixture rest for 1 minute, then re-stir briefly before application.

4. Application & Reinforcement

- Spread the mixed material using a flexible stainless-steel trowel in a uniform layer no thicker than 40 mils (1 mm).
- Maintain a wet edge and use "wet-on-wet" blending techniques along transitions to prevent dry seams.
- **Mesh Reinforcement:** When reinforcing unstable substrates or bridging seams, immediately lay alkali-resistant fiberglass mesh into the wet first coat of MyBASE and trowel smooth so the mesh is fully encapsulated.

5. Sanding & Inter-Coat Preparation

- Allow the applied layer to dry for approximately 4 hours (at 68°F and 50% RH).
- Sand the surface smooth using a random orbital sander equipped with 60–120 grit sandpaper.
- Vacuum the entire area thoroughly to remove all airborne dust before applying subsequent base or finish coats.

Packaging & Storage

- **Kit Sizing:**
 - **26.5 lb Small Kit:** 19.8 lbs Powder + 6.7 lbs Liquid (~12 kg equivalent)
 - **44.0 lb Large Kit:** 33.0 lbs Powder + 11.0 lbs Liquid (~20 kg equivalent)
- **Shelf Life:** 12 months from manufacture date when stored in original, unopened, and undamaged packaging.
- **Storage Conditions:** Store indoors in dry conditions at temperatures between 50°F and 77°F (10°C to 25°C).

CRITICAL: PROTECT FROM FREEZING. Freezing causes irreversible breakdown of the liquid polymer dispersion. Do not store below 41°F (5°C).

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Safety, Compliance & Handling (US Market)

- **Personal Protective Equipment (PPE):** Wear chemical-resistant nitrile or PVC gloves, ANSI-approved eye protection (safety goggles), and long-sleeve protective clothing during handling and mixing. Avoid contact with skin, eyes, and clothing.
- **Respiratory Protection:** Cured mortar grinding and dry powder handling release respirable crystalline silica dust. A NIOSH-approved dust respirator (N95 or higher) is required during dry mixing and sanding operations.
- **Ventilation:** Maintain adequate cross-ventilation in enclosed spaces during application and curing.
- **Regulatory Compliance:** This product is sold with a US Safety Data Sheet (SDS) authored in compliance with OSHA HCS 2012 (GHS standards). All chemical ingredients are listed on or exempt from the EPA TSCA Inventory.

WARNING: Application at ambient or substrate temperatures below 59°F (15°C) or in high-humidity environments will severely retard setting, potentially causing incomplete polymer curing and loss of strength. Final determination of product suitability for any given substrate or application remains the sole responsibility of the installer.

Technical Information: All measurements and technical values are approximate unless otherwise stated. Coverage, consumption, drying times, and other application characteristics may vary depending on substrate condition, application technique, temperature, humidity, and other site conditions. The information provided is based on typical conditions and is intended as a general guide.

Notice: The final determination of the suitability of the material for a specific use is the sole responsibility of the user.

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