



# 2089FS™ Epoxy Coating | FAST SETTING EPOXY COATING

Manufactured by Polygem, 5600 Lower Macungie Rd. | Macungie, PA 18062 | 630-231-5600 | Made in USA

**POLYGEM**  
polygem.com

TB - TECHNICAL BULLETIN

## PRODUCT DESCRIPTION

**2089FS™ Epoxy Coating** is a 2A to 1B by volume, fast-curing epoxy resin specially formulated for use as a base-coat in quartz broadcast seamless flooring applications which will allow for a double broadcast or top-coating in a little as 2 hours.

The resin's low viscosity allows for easy to spread thin-coat applications. It is ideal for small areas or areas of critical service that demand a prompt return to service.

**2089FS** is resistant to most chemicals and solvents. It is non-blushing making it the system of choice for cool/humid floors. 2089FS when mixed with clean dry silica sand, is also ideal for use as an epoxy mortar or grout for fast-track repairs and even cold weather applications.

## ADVANTAGES

- **100% Solids**
- **No VOCs**
- **No Solvents**
- **Fast Setting & Curing**
- **Will Cure Under Cool/Humid Conditions**

## RECOMMENDED USES

**2089FS** is designed for patching and repair of worn metal or concrete surfaces that are exposed to abrasive environments. It is ideal for use for:

- **Primer Coats**
- **Crack Sealing**
- **Laminating Dissimilar Surfaces**
- **Exposed Aggregate Resurfacing**
- **Epoxy Mortars and Grouts**
- **Quartz Broadcast Flooring**
- **Chemical & Corrosion Resistant Coating**

## APPLICATION INSTRUCTIONS

1. **2089FS** can be applied by squeegee, brush, roller or spraying.
2. Clean surface by shotblasting or sanding to provide clean and open surface.
3. Thoroughly mix measured amounts of 1 Part A resin with 2 Parts B hardener by volume until streak free. Scrape side and bottom of pail frequently during mixing to insure a good mix. Mix only enough that can be applied in 15 minutes.
4. Spread mixed epoxy with squeegee and back roll with a 3/8 in. (9.525 mm) nap roller until spread evenly onto the surface. Back-roll two times in a perpendicular directions and take care to avoid puddles or "dry spots" for best results.
5. Immediately broadcast quartz aggregate "to rejection" into wet epoxy.

## PACKAGING

**2089FS** is available in a **3 Gallon kit, or 15 Gallon Kit.**

## SHELF LIFE

Unopened containers of 2089FS are guaranteed for 24 months. Store in temperatures between 60-80°F (16-22°C). Storing above 85°F (29°C) will reduce the shelf life. Keep from freezing.

## LIMITATIONS

Not for use on contaminated or oily surfaces.

**DO NOT** apply when surface temperature is below 32°F (7°C) or above 85 °F (29°C).

During damp and/or cool conditions epoxy will cure more slowly. Protect finished work from traffic until fully cured

## CAUTIONS

Wear chemical goggles and NIOSH approved respirator. Wear proper protective clothing and gloves to prevent direct contact of resins. Consult Safety Data Sheet for full listing of protective requirements.

**2089FS Epoxy Coating** may irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin.

For professional use only.

Keep out of reach of children.

## TECHNICAL DATA

TYPICAL PROPERTIES | All values measured after 7 days at 73°F (23°C).

**Mix Ratio:** ..... 2A:1B  
By Volume

**Mixed Viscosity:** ..... 860 cps.  
ASTM D-2393

**Pot Life:** (100 gms) ..... 18 mins.  
ASTM D-2471

**Tack-Free Time:** (77°F - 25°C) ..... 3 hrs.

**Tack-Free Time:** (40°F - 4.4°C) ..... 10 hrs.

**Cure Time:** (1/16 in.-1.59 mm) ..... 2 hrs.

**Shore D Hardness** ..... 84  
ASTM D-2240

**Compressive Strength:** ..... 11,100 psi.  
ASTM D-695

**Compressive Modulus:** ..... 289,000 psi.  
ASTM D-695

**Tensile Strength:** ..... 9,100 psi.  
ASTM D-638

**Flexural Strength:** ..... 14,900 psi.  
ASTM D-790

**Elongation at Break:** ..... 4.7%  
ASTM D-638

## POLYGEM LIMITED WARRANTY:

Polygem warrants that during the shelf life of the product (as determined from the date of manufacture), the product will conform to the specifications provided in this technical bulletin. **POLYGEM MAKES NO OTHER WARRANTIES, EXPRESSED, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.** Neither any performance or other conduct, or any oral or written representation, statement or advice provided by Polygem or any of Polygem's distributors, agents, or employees will create a warranty, or in any way increase the scope or duration of this limited warranty. Polygem will have no warranty obligation if the product becomes defective, in whole or in part, as a result of: (i) the transportation of the product; (ii) any alteration or modification to the product by third parties; or (iii) improper handling or storage of the product (including improper handling or storage by third-party carriers or distributors).

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