



EPOXY REPAIR & LEVELLING PUTTY — TWO-COMPONENT, SOLVENT-FREE

Fly E-Putty

Two-component, solvent-free epoxy putty for filling cracks, voids and surface defects before coating

Non-shrink and trowel-applied: it fills and levels in one operation, so the topcoat goes onto a flat surface instead of following every defect beneath it.

DESCRIPTION

Fly E-Putty is a two-component, solvent-free epoxy repair and levelling compound. It trowels to a smooth, non-slump consistency and cures without shrinkage to a hard, mechanically strong and chemically resistant surface, suitable for patching, filling cracks, forming coves and making good defects in concrete and epoxy flooring systems.

KEY ADVANTAGES

- Solvent-free and non-shrink
- Trowels smoothly and holds its shape on verticals and coves
- High compressive and flexural strength
- Resists water, oils, dilute acids and alkalis and cleaning agents
- Bonds to concrete and to cured epoxy layers
- Zero VOC

FIELDS OF APPLICATION

Fly E-Putty fills cracks, blowholes, voids and surface imperfections in concrete and epoxy floors, makes good spalled edges and joint arrises, and forms coves at floor-to-wall junctions. It is used within the Fly epoxy flooring system between the primer and the topcoat.

TECHNICAL DATA

Property	Typical Value
Base	Two-component, solvent-free epoxy resin
Colour	Light grey — other colours to order
Mixing ratio (A : B)	1 : 1 by weight
Density (A + B)	≈ 1.60 kg/L
Pot life (+20°C)	≈ 30 minutes
Pot life (+35°C)	≈ 15 minutes (typical)
Minimum application temperature	+8°C
Overcoat time (+23°C)	Minimum 20 h — maximum 48 h
Full cure (+23°C)	7 days
Shore D hardness	80 - 82
Compressive strength (ASTM C579)	≈ 55 N/mm ²



Property	Typical Value
Flexural strength (ASTM C580)	≈ 23 N/mm ²
Tensile strength (ASTM D638)	≈ 15 N/mm ²
Adhesion by pull-off (EN 1542)	≥ 1.5 N/mm ² (failure normally in the concrete)
Impact resistance (EN ISO 6272)	IR 4
Service temperature	-30°C to +100°C dry · up to +60°C wet
Consumption	≈ 1.6 kg/m ² per mm of thickness

Standards: Classified to EN 13813 as SR-B1.5-IR4. Adhesion is determined to EN 1542 and the declared class follows from it. Abrasion is not declared, because the putty is always overcoated, and the abrasion class of the system is carried by Fly Floor 818. Mechanical properties are tested to ASTM C579, ASTM C580, ASTM D638 and ASTM D4541.

APPLICATION CONDITIONS

- Ambient temperature +10°C to +35°C
- Substrate temperature at least 3°C above the dew point
- Relative humidity below 80%
- Substrate moisture content below 4%
- Concrete at least C20/25 and at least 28 days old

DIRECTIONS FOR USE

- 1. Surface preparation:** The substrate must be sound, clean and free of dust, oil, grease and laitance. Prepare mechanically by grinding or shot blasting and remove all dust with an industrial vacuum. Where the putty is applied over Fly PSF, work within the primer's overcoat window.
- 2. Mixing:** Mix equal weights of component A and component B with a slow-speed mixer at roughly 300 rpm for 3 – 5 minutes, until the colour is uniform and without whipping air into the mix.
- 3. Application:** Apply by trowel or putty knife, pressing the material firmly into cracks and voids so no air is left behind, and strike off level with the surrounding floor. Build up in layers where the depth is significant rather than filling deep voids in one pass.
- 4. Finishing:** Allow to cure, then sand back any proud areas before applying the topcoat. Overcoat within the stated window; beyond it, abrade the surface first.

CONSUMPTION ≈ 1.6 kg/m ² per mm	PACKAGING 2 kg · 5 kg · 10 kg sets	SHELF LIFE 24 months
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REMARKS & SAFETY

Epoxy resins and hardeners are irritant and may sensitise the skin. Wear gloves and eye protection and ensure adequate ventilation.

- Mix complete units only, or weigh part-units accurately — a putty gauged by eye cures soft.
- Do not thin. Fly E-Putty is formulated solvent-free.
- Do not use to fill a movement joint; movement joints are sealed with Fly PU after the topcoat.
- Store unopened in dry, cool, ventilated conditions away from heat and direct sunlight.
- Please consult the Safety Data Sheet before use.

System note: Fly E-Putty is the levelling layer of the Fly epoxy flooring system — Fly PSF as primer, Fly E-Putty for repair and levelling, Fly Floor 818 as topcoat.