

APCOFLOR EPOXY PUTTY

FLOORING COMPOUND

Two-component, solvent-free epoxy putty for concrete.

PRODUCT DESCRIPTION

Apcoflor Epoxy Putty is a two-component, thixotropic, solvent-free compound based on epoxy resins, graded fillers, and performance additives. It is designed to rectify concrete defects and imperfections. Applied directly to concrete substrates without a primer, it cures to a uniform, smooth surface. This makes it an ideal preparatory material before applying subsequent epoxy, polyurethane, or polyurea coatings.

KEY FEATURES

- **Excellent Chemical Resistance:** Withstands exposure to salt water and jet fuel, ensuring long-lasting protection in harsh environments.
- **Strong Bond and Sag Control:** Delivers superior adhesion with excellent sag resistance, enabling stable application on vertical surfaces.
- **Smooth and Uniform Finish:** Forms an even, refined surface ideal for thin fairing coats and precision repair work.
- **Easy and Primer-Free Application:** Non-toxic, low-VOC formulation that applies easily without the need for any priming.

PRODUCT BENEFITS



Chemical Safe



Strong Adhesion



Smooth Finish



Easy Application

PACKAGING

5 Liter Pack

TECHNICAL PROPERTIES

Properties	Value
Finish	Smooth and semi-gloss
Theoretical coverage	0.2 liter / m ² @ 200 microns DFT 0.1 liter / m ² @ 100 microns DFT (The practical coverage will depend on the substrate condition)
Volume solids	100%
Typical dry film thickness	0.1 mm - 5mm
Wet film thickness	Same as DFT
VOC "As Supplied" (BS EN ISO 11890-1)	< 1gms/Litre
Thinner/ cleaning solvent	Solvalux 7-45
Mixing ratio (by weight)	3 parts Base & 1-part Hardener (by Volume) It is always advised to mix in full packs
Flash point	Not applicable
Pot life	1 hour @25°C
Tensile strength (ASTM C 307-18)	13.1 N/mm ² in 7 days
Adhesion/ pull off strength (ASTM D 4541:2017)	> 4 N/mm ²

Properties	Value
Flexural strength (ASTM C 580-02)	>21 N/mm ²
Compressive strength (ASTM C579-2018)	>70 N/mm ²
Reduction in chloride ion penetration	76%

Drying Time

Surface Temperature	Touch Dry	Hard Dry	Over coating Interval
15° C	18 Hrs	48 Hrs	16 Hrs
25° C	10 Hrs	24 Hrs	12 Hrs
35° C	6 Hrs	12 Hrs	8 Hrs
45° C	3 Hrs	8 Hrs	8 Hrs

APPLICATION AREAS

- Ideal for repairing surface defects, cracks, and irregularities in concrete and masonry substrates.
- Suitable as a skim coat for re-profiling, leveling, and stabilizing concrete surfaces before coating.
- Used as a filling and bonding compound for masonry, metal, precast elements, and non-flexible assemblies.
- Effective for crack sealing and injection works using packer-installed ports in structural repairs.
- Recommended for traffic-prone areas like warehouses and car parks to repair expansion joints and large cracks.
- Accept topcoats and linings seamlessly.
- Acts as bedding mortar for structural bonding.
- Bonds structural and composite elements (e.g., carbon fiber plates/wraps) to concrete.
- Fixes injection ports and surface damage before resin application.
- Bonds TPE strips securely to concrete.

APPLICATION METHOD

1. Surface Preparation:

- **Basic Cleanliness:** Surfaces must be clean, dry, and completely free from laitance, oil, grease, dirt, and water before the putty is applied.
- **Individual Component Stirring:** Both the Base and Hardener components must be stirred individually prior to mixing to re-disperse any settled material and ensure uniformity.
- **Pre-Mix Base:** The Base component, in particular, should be pre-mixed thoroughly until any existing lumps are completely eliminated before the hardener is added.
- **Combining Components:** Add the entire hardener content to the base and mix them using a slow-speed (< 500 rpm) heavy-duty drill fitted with a paddle mixer.
- **Mixing Goal:** Stir continuously until a smooth, uniform, and completely lump-free mix is achieved, indicating the putty is ready for application.

2. Application:

- **Application Method:** The putty can be easily applied using a trowel, spatula, scraper, or filling knife, following good workmanship practices. Do not apply this product if the RH (relative humidity) exceeds 85% or if the substrate temperature is within 3°C of the dew point.
- **Extended Open Time:** To avoid overheating and extend the open time (working window), it is recommended to subdivide the mixed material onto spot boards for individual applicators.
- **Placement Technique and Initial Sanding:** Press the putty firmly into holes and cracks, and level it off while it is still plastic to minimize subsequent rubbing down. If sanding is required, it should commence 8 hours after application using a fine sander or Grade 240 sandpaper.
- **Cleaning:** Application and mixing equipment should be cleaned as soon as possible after use with Asian Paints Berger Solvalux 7-45. Do not attempt manual sanding if the putty is fully cured (beyond 12 hours).

PRODUCT LIMITATIONS

- Not suitable for direct sunlight exposure, as epoxy surfaces may chalk over time.
- Pot life decreases significantly at higher temperatures, affecting workability during application.

STORAGE CONDITIONS

Store in dry, clean, cool warehouse conditions below 25°C, keeping the product in its original unopened packs and protected from direct sunlight. Improper storage may reduce working time or shorten shelf life.

SHELF LIFE

Apcoflor Epoxy Putty carries a 12-month shelf life from the date it is manufactured.

SAFETY PRECAUTIONS

- Always wear protective gloves, goggles, and clothing during mixing and application to prevent skin or eye irritation.

- Avoid direct contact with skin or eyes; in case of contact, wash the affected area with plenty of clean water.
- If inhaled, move the affected person to fresh air immediately and seek medical advice if discomfort persists.
- Ensure proper ventilation at the site of application to avoid inhalation of fumes.
- Keep away from heat, sparks, and open flames. Do not smoke during handling.

CERTIFICATIONS

Apcoflor Epoxy Putty complies with ASTM C 307-18, ASTM D 4541:2017, ASTM C 580-02, ASTM C 579-2018 and BS EN ISO 11890-1.

DISCLAIMER

The information provided in this Technical Data Sheet is based on laboratory tests, industry practices, and practical application experience. However, actual site conditions may vary and are beyond the manufacturer's control. Asian Paints makes no warranties, expressed or implied, and shall not be liable for any loss or damage resulting from improper usage, handling, or non-compliance with the recommended guidelines. Users are advised to test the product for suitability before full-scale application.