

High build epoxy bug hole filler, skim coat and general purpose adhesive

Product Description

TAL BUGFILL is a high build thixotropic epoxy resin for filling bug holes (blow holes) in concrete, and surface imperfections in steel, prior to the application of epoxy, polyurethane and polyurea coatings. It is also used as a general purpose adhesive, liner and bedding compound.

Composition

TAL BUGFILL is a solvent free epoxy resin. The product is available in two grades, a standard version suitable for most applications and a high build version for use on soffits and areas requiring a higher thicknesses.

Advantages

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Formaldehyde free
- Non slump
- Long Pot life
- Primerless
- Can be used in contact with potable water
- Resistant to wide range of chemicals
- Can be used in immersed conditions

Typical Uses

- Bug (blow) hole filling
- Skim coat
- Tank lining
- Repair of imperfections in coatings
- Bonding of slip bricks
- Bedding mortar
- Installation of anchor bolts

Specification Compliance

SCAQMD Rule 1113
LEED NC2009 IEQ 4.2

Laboratory Test Data

Property	Typical Results
Compressive strength (ASTM C309)	≥70MPa
Slant shear strength (ASTM C882)	≥30MPa
Specific gravity	1.6 ± 0.05

Application Properties

	10°C	20°C	30°C	40°C
Pot life	4 hours	80mins	40mins	20mins
Recoat time	24 to 48* hours	18 to 36 hours	12 to 18 hours	6 to 12 hours

* Material must be kept free from contamination

Volatile Organic Content

VOC = <50 g/L

Theoretical Coverage

1.6 kg/m² at 1mm thickness.

Actual coverage will depend on wastage and surface profile.

Packaging

5kg kits.

Shelf Life

18 months when stored at below 35°C under shade in a dry environment.

Installation Guidelines

TAL BUGFILL should be applied by experienced paint crews. TAL provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

Surface Preparation

Concrete

The substrate must be structurally sound. Loose or unsound concrete should be removed and made good. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The surface should be prepared by light grit blasting or high pressure water blasting to produce a lightly exposed aggregate surface and reveal all bug (blow) holes and imperfections.

Steel

Any damaged steel should be removed and replaced. The substrate should then be grit blasted to minimum SA 2½. Depending on the level of corrosion protection required, an anti-corrosion or holding primer may be necessary. TAL BUGFILL must be applied immediately after the grit blasting has been completed.

Mixing

Thoroughly mix the base prior to adding the hardener using a slow speed drill (500rpm) fitted with an approved TAL mixing paddle. After mixing the base, add all of the hardener to the base and mix for 1 minute until both components have fully dispersed and are uniform in color. Be sure to rotate the mixer throughout the drum. Mix only full packs. Addition of added selected filler can achieve higher build. Add TAL BUGFILL 5 filler to achieve a product suitable for 3 to 5mm repairs and TAL BUGFILL 10 filler for 5 to 10mm repairs. Add the filler component and mix for a further 3 minutes until homogenous. The above thicknesses are applicable as repairs to flat surfaces, higher builds are achievable when used in pocket repairs.

Application

Apply using trowel, scraper or filling knife, using a 'scrape on, scrape off' technique to completely fill bug (blow) holes and imperfections. Bug holes or imperfections greater than 10mm will require to be filled in two or more layers, with the first layer being allowed to harden before application of the subsequent layer. Recoat after 16 to 24 hours at 25°C or 8 to 16 hours at 35°C. Clean uncured material from equipment using TAL SOLVENT S. Cured material can only be removed by mechanical means.

Limitations

Will change color when exposed to direct sunlight.
Do not finish using solvent.
Will not accommodate movement cracks.
Do not apply below 4°C
Do not discard into the water system.
Protect from chemical and water spillage until fully cured.

