

# BLUSKY™ FLOWCRETE EC 31

## Solvent Free Thixotropic Epoxy Based Concrete Resurfacing cum Bonding Agent

### Description

**BLUSKY™ FLOWCRETE EC31** is a solvent-free, moisture tolerant, thixotropic, two part structural adhesive and repair mortar, based on epoxy resins and special fillers, designed for use at temperatures between 5°C & +40°C. It is a pasty consistency material which gives a coarser finish mainly for pot-hole repair of concrete structures.

**Part- A : Base (White) Paste**

**Part- B : Hardener (Black) Paste**

**Mixed Material : Grey**

### Indicative Characteristics

Mixing Ratio (Pack A: B), by wt.	2:1
Pot life, minutes, 30°C	More than 30 minutes
Touch dry	3-6 hours
Hard dry	Over night
Full cure	7 days
1 day Compressive Strength	>40 MPa
7 days Compressive Strength,	>60 MPa
7 days pull off bond strength	>2 MPa (or concrete failure)
Mixed Density	1.8 ±0.2

### Domains of Application

Thixotropic - can be applied in uniform thickness on vertical and horizontal surfaces to rectify concrete blow holes and undulations. It can also use as adhesive to join steel, aluminium items with concrete.

### Method of Application

#### Surface Preparation

#### Concrete

Surface must be sound, dry, clean and free from laitance, ice, standing water, grease, oils or coatings and all loose or friable particles must be removed to achieve a laitance and contaminant free, open textured surface.

#### Steel

Must be cleaned and prepared thoroughly to an acceptance quality i.e. by blast cleaning and vacuum. Avoid dew point conditions.

#### Mixing

Mix parts A+B together for at least 3 minutes with a mixing spindle attached to a slow speed electric drill (max. 600 rpm) until the material becomes smooth in consistency and a uniform grey colour. Avoid aeration while mixing.

#### Application

When using a thin layer adhesive, apply the mixed adhesive to the prepared surface with a spatula, trowel, notched trowel, (or with hands protected by gloves). Ensure the surface temperature is in between +5°C to 40°C and 3°C above dew point.

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users Consult the latest update of the technical data sheet on our website [www.bluskyscpl.com](http://www.bluskyscpl.com)

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### Advantages

- Easy to mix and apply as it is in paste consistency form.
- Suitable for dry and damp concrete surfaces.
- Very good adhesion to most construction materials.
- Fast setting and High early Strength.
- Hardens without shrinkage.
- No primer needed.
- Good abrasion and chemical resistance.
- Solvent free, High initial and ultimate strength
- Thixotropic: non-sag and suitable for vertical and overhead application

### Safety

- Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet.  
The MSDS is available on [www.bluskyscpl.com](http://www.bluskyscpl.com)

### Shelf Life & Storage

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C

### Packing

4.5kg (Combined), Pack – A (Base) – 3kg, Pack – B (Hardener) - 1.5kg

### Precautions

- Store the material at the 5° to 40°C temperature range in shaded cool place and keep it away from fire and any heated body. Clean all tools with MEK or any standard solvent before polymerization starts.
- Application shall be carried out at below 70% RH and at least 3°C above the dew point.
- Mix only sufficient materials for immediate requirements.

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