

## EC400 Part A - Adhesive Component

A quality, cost efficient, high performance hygienic wall and ceiling systems that you can rely on. Our comprehensive cladding range offers a dependable, simple and attractive solution.

### *product information*

Name:	EC400 Part A - Adhesive Component
Other names:	EC400 Part A - Adhesive Component
Abbreviation ISO 1043:	-

### *this document contains*

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# EC400 Part A - Adhesive Component

BASE Polyurethane
SOLVENTS None.
VISCOSITY @ 20°C (A): Thick Paste (B): Liquid
FLAMMABILITY N/A
SERVICE TEMP -40°C - +130°C
APPLICATION TEMP MIN. +10°C MAX. +30°C
SPECIFIC GRAVITY @ 20°C (A): 1.70 - 1.73 (B): 1.21 - 1.23
SHELF LIFE 6 months @ 5°C - 25°C

## DESCRIPTION

A two-component polyurethane adhesive. The formulation has been designed to give ease of mixing for notched scraper applications. This filled adhesive has been formulated for the bonding of uPVC and GRP sheets to most building substrates, including brickwork, plaster, concrete, blockwork, etc.

## APPLICATION

### Preparation

Surfaces must be clean, dry and free from any contaminants liable to impair adhesion. New build structures should be allowed to dry out for at least 6 weeks prior to application of EC400 and should then have a moisture content on the surface and in the core of less than 14%. Very porous substrates may be sealed with a dilution of PVA. Ensure that the PVA is completely dried out (at least 8 hours) prior to application of EC400.

All materials should be allowed to acclimatise for at least 24 hours before bonding. The sheeting, air temperature, and substrate should all be close to the final operational temperature of the building prior to application to avoid stresses from expansion of the plastic sheeting.

### Method of application

EC400 is supplied as a 6.5 kg pack. The mix ratio 12:1 by weight. Normally, Part A is contained in a 5L bucket and part B in a sealed sachet. Once mixed the pot life is 10 minutes @ 20°C (Longer at lower temperatures.) and so substrate preparation should be complete before mixing. Add all of the part B to the part A and stir until a uniform colour is achieved ensuring that the sides are scraped down often during mixing. When mixed, apply the adhesive to one surface only. Apply to sheet with a 6mm notched trowel and apply immediately to the substrate smoothing outwards from the centre.

## BONDING / PRESSURE RANGE

Apply pressure as necessary to hold the substrates in contact until curing has occurred. Allow 4-6 hours for full cure (longer if temperatures are below 15°C). Mixed adhesive should be used within 30 minutes.

## HANDLING AND STORAGE

Part A - 6 months in unopened containers. Store between 5°C and 25°C.  
Part B - 6 months in unopened containers. Store between 5°C and 25°C.

## COVERAGE

For cladding walls with PVC sheeting, use 1 x 6.5Kg kit for every 2.5M2 sheet.

## Safety properties

### Substance/preparation and Company detail

EC400 PART A Adhesive component.

### Hazards Identification

Workplace exposure limit: This substance does not have a workplace exposure limit.

PBT: This substance is not identified as a PBT substance.

Directive 1999/45/EC: This does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC.

### Composition / information on ingredients

Hazardous ingredients: CALCIUM CARBONATE 50-70%

CAS: 1317-65-3

Contains: Hydroxylated polyols and non-reactive additives. Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels.

### First aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

Inhalation: Consult a doctor.

### Fire fighting measures

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### Accidental release measures

Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking containers leakside up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### Handling and storage

Handling requirements: Protect against moisture. In all workplaces where high concentrations of aerosols and/or vapors may be generated (e.g. during mold venting or when cleaning mixing heads with an air blast), appropriately located exhaust ventilation must be provided so the WEL is not exceeded.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

### Exposure controls / personal protection

Hazardous ingredients: CALCIUM CARBONATE

UK - 8 hour TWA: 4 mg/m<sup>3</sup> (Respirable dust)

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

### Safety properties

#### Physical and chemical characteristics

State: Liquid  
Colour: Beige  
Odour: Perceptible odour  
Evaporation rate: Negligible  
Solubility in water: Insoluble  
Viscosity: Highly viscous  
Boiling point/range°C: >195  
Flash point°C: >185  
Vapour pressure: 3 hPa @ 20°C  
Relative density: 1.72

#### Stability and reactivity

Stability: Stable under normal conditions.  
Conditions to avoid: Heat.  
Materials to avoid: Strong oxidising agents. Strong acids.  
Haz. decomp. products: In combustion emits toxic fumes.

#### Toxic information

Toxicity value(s): ORAL RAT LD50 >2000 mg/kg

#### Toxic information (Symptoms)

Skin contact: There may be mild irritation at the site of contact.  
Eye contact: There may be irritation and redness.  
Ingestion: There may be irritation of the throat.  
Inhalation: No symptoms.

#### Waste-disposal information

Waste treatment methods  
Disposal operations: Arrange for disposal by a licensed waste disposal company  
Disposal of packaging: Arrange for disposal by a licensed waste disposal company  
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### Ecological information

Ecotoxicity value(s): ZEBRAFISH (Brachydanio rerio) 96H LC50 >100 mg/l  
Mobility: Readily absorbed into soil.  
Persistence and degradability: Biodegradable.  
Bioaccumulative potential: No bioaccumulation potential.  
Other adverse effects: Negligible ecotoxicity. The product has not been tested. The statement has been derived from the structure of the product.  
PBT identification: This substance is not identified as a PBT substance.

#### Disposal Considerations

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### Regulations

Hazard symbols: No significant hazard.  
Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.  
Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## *Safety properties*

### Further information

Other information: This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006. Depending on the production parameters, any uncovered surfaces of thermoset moldings produced using this raw material may contain traces of substances (e.g. starting and reaction products, catalysts, release agents) with hazardous characteristics.

Skin contact with traces of these substances must be avoided. When demolding or otherwise handling freshly molded thermoset parts, protective textile gloves must be worn as a minimum.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.