

# XCHEM

## TECHNICAL DATA SHEET

### FORTCAST GENERAL XFC 45

#### DESCRIPTION

Fortcast General XFC 45 is a two-component, polyurethane-based, cold-pouring electrical-jointing and general-casting compound.

#### KEY PROPERTIES

- Fortcast General XFC 45 has high-impact strength, as well as good electrical and thermal properties.
- It has good mixing and pouring qualities that make it ideal for casting-moulds and pattern-making applications.
- The product has minimal shrinkage.
- The cured compound has excellent resistance to water and most solvents.
- Fortcast General XFC 45 is machinable.
- The products fast-setting properties allow for short handling time.
- Setting time can be shortened by using a catalyst or by exposing the applied area to heat.
- Fortcast General XFC 45 can withstand temperatures of up to 120°C.

#### KEY APPLICATIONS

Fortcast General XFC 45 is used mainly for production of moulds, jigs, dies and models and can also effectively be used in electrical-jointing and encapsulation of mortars, wires and cables.

#### DIRECTIONS FOR USE

- Ensure the surface is free from dirt, moisture and any fresh release agent applied.

- Stir each individual component well before mixing. This will ensure each components' homogeneity.
- Mixing ratio:

Resin	1 part by weight	
Hardener	1 part by weight	OR
Resin	100 parts by weight	
Hardener	100 parts by weight	
- Reaction rate can be increased by adding a catalyst or by exposing the area to heat.
- Once applied to the prepared surface allow to cure.

#### TECHNICAL DATA

- **Colour** : Resin - cream  
: Hardener - brown  
: Mixed resin - cream to brown
- **Viscosity at 25°C** : 3000 to 4000mpa.s
- **Density** : 1500kg/m<sup>3</sup>
- **Pot Life** : Approx. 40mins
- **Gel Time** : Approx. 60mins
- **Cure Time** : 3 to 4hrs
- **Specific Gravity** : 1.7
- **Coverage** : 0.6m<sup>2</sup>/kg (1mm application)
- **Compression Strength** : 155mpa
- **Deflection at Break** : 4mm
- **Shore D Hardness** : 85

#### STORAGE AND STABILITY

Fortcast General XFC 45 has a 12 months shelf life if kept sealed, under cool and dry conditions in the original packaging. In extreme conditions this period might be shortened

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#### TOXICITY

Fortcast General XFC 45 is toxic. Always ventilate the working area well during application and drying. The appropriate protective wear should be worn when handling the product and care should be taken at all times. Fortcast General XFC 45 cured is inert and harmless.

#### SAFETY PRECAUTIONS

- Protective clothing/gloves should be worn when handling the Fortcast General XFC 45 product.
- Normal industrial hygiene standards should be adhered to and practiced at all times during the use of the product.
- Ensure good ventilation or alternatively wear a protective mask whilst using the product to avoid inhalation.
- In case of skin contact immediately wash affected area with warm soapy water.
- In case of eye contact, rinse the affected area thoroughly with clean water and **IMMEDIATELY** contact a doctor.
- Keep out of the reach of children and pets.
- Harmful if swallowed. In case of ingestion, drink 3-5 glasses of water and seek medical attention immediately.

The data and recommendations concerning this product are the result of extensive X-CHEM (Pty) Ltd laboratory testing and experience. As the use of the product is beyond our control, no warranty is expressed or implied and the customer should satisfy him/her self as to the suitability for this particular application.



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