

# FIRE ACRYLIC

## DESCRIPTION

One component flame retardant sealant based on a special mixture of acrylic resins and flame retardant inorganic fillers. In fire situations a special chemical mechanism takes place which leads to swelling of the sealant. The inorganic crust, which is formed, is unaffected by fire and prevents the passage of smoke or flames. FIRE ACRYLIC doesn't contain solvents.

## PHYSICAL AND TECHNICAL PROPERTIES

- **Colour:** White. It can be painted after curing.
- **Surface membrane formation time:** 10-20 min, depending on environmental conditions
- **Curing time for 5 mm sealing depth:** 4-5 days, depending on environmental conditions
- **Elongation at break point (DIN 53504) :** approx. 450%
- **Relative working deformability:** 8%
- **Swelling:** approx. 100%
- **Thixotropy:** Suitable for sealing of vertical joints (it does not sag).
- **Temperature variations resistance:** -20 to +70°C (as a movement seal).
- **Fire Rating:** Up to 4 hours.

After application, in contact with air, it is vulcanised to a cohesive, plastoelastic mass adhering to joint walls.

## APPLICATION FIELDS

**Joint sealant for construction applications where high standards are set in respect to flame retardance of the material.**

It is especially suitable for joints of materials with absorbent (porous) surface in interior and exterior places, as between windows and sills, window- or door-frames and walls, wall cracks, plasterboard etc. FIRE ACRYLIC is suitable for joints without large working width change (up to 8%).

**FIRE ACRYLIC meets the requirements of BS 476 part 20: 1987**

It is not suitable for sealing of joints permanently immersed in water (water tanks etc.).

**APPLICATION INSTRUCTIONS**

The environmental temperature must not be below 10°C during application. Days of rain possibility must be avoided, because during the first hour after application the material must not be exposed to rain.

**Preparation:** The substratum must be free of dust and loose particles. Cleaning by means of a wire-brush and blowing with compressed air, if available, is recommended.

To avoid the soiling of the joint edges we put self-sticking paper tape (masking tape) along the edges. This tape must be removed immediately after sealing (before curing of the sealant).

**Sealing:** We put the cartridge/sausage into the suitable gun, cut the nozzle slantwise to form an opening proportional to the joint width and apply the sealant into the joint. The smoothing of the surface of the sealant, if needed, must be done with a spatula immediately after application, because after about 5 minutes the surface membrane formation begins. We, also, remove the masking tape before membrane formation.

**Cleaning of tools and hands:** Unless dry, the sealant is easily removed with water (preferably hot). If dry, it is removed mechanically (by scraping). FIRE ACRYLIC is normally harmless and it does not need special precautions during application.

**Curing:** It begins immediately after application (contact with air) and is completed after one month (approximately), when the sealant obtains its final properties.

**Shelf life:**

12 months minimum when stored in places with normal temperature and humidity.

**Warning to users**

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