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## TECHNICAL DATA SHEET

### Tuffstick

Tuffstick is a specially formulated filled polyester compound cured by the addition of benzoyl peroxide catalyst. Unlike some other polyester and epoxy adhesives it is flexible and thus accommodates some movement in the substrates.

It is fast setting and adheres well to polyester. Curing is not affected by moisture so it is possible to use the product in damp conditions providing it fully wets the substrate.

#### **TYPICAL PHYSICAL PROPERTIES**

Uncured Adhesive

Specific Gravity 1.5

Gel time

1% Catalyst at 25°C Approximately 18 minutes

2% Catalyst at 25°C Approximately 11 minutes

Colour Neutral (light straw) (can be pigmented if required)

Consistency Supplied as thin or thick paste

Cured Adhesive

Hardness (Shore D) 62

Ultimate Tensile Strength 9Mpa

Elongation at Break 30%

Compressive Strength 45Mpa

Compressive Modulus 100Mpa

Shear Strength 15Mpa

Flammability UL94, Classified 94HB (flame did not pass 25 mm mark)

#### **SAFETY PRECAUTIONS**

Tuffstick is a mixture of resin and selected filler in styrene/methyl methacrylate.

Catalyst is benzoyl peroxide paste in dibutyl phthalate

Both components are flammable and should be handled with care.

Handling and safety details for both are similar.

Eye contact: Wash eyes with copious amounts of clean water for at least 15 minutes and consult a physician.

Skin contact: Wash off with soap and water.

Ingestion: Induce vomiting. Give plenty of milk or water.

Refer M.S.D.S.

#### **METHOD OF USE**

Clean area to remove loose substrate or dust and lightly scuff with abrasive paper.

Mix catalyst (1-5%) into adhesive until uniform in colour.

(reducing amount of catalyst will lengthen pot life)

Apply adhesive to substrates and press together.

Allow to set.