

# Technical Data Sheet

Date of issue: 23-10-2022

Version 1.3

## DESCRIPTION

**ShutterStrip Construction joint film** is a water-soluble film that contains organic concrete retarders; the film is non-hazardous and sealed in protective liners.

**Ingredients determined not to be hazardous**

**Appearance:** Yellowish Film.

## USAGES

**Construction Joint Film** can be easily attached to any area of a formwork/shutter to deactivate/slow the setting of wet concrete laitance to expose aggregates to create a keyed construction joint or for exposing starter bars and for aesthetic decorative purposes.

## ADVANTAGES

- Solid film, not a liquid, gel or powder, no COSHH needed
- Where the concrete interface is expected to transfer tensile and shear stress forces
- Expose aggregate with a jet wash
- Expose aggregate with a hard brush
- Depth of 3mm to 5mm
- Expose aggregate up to 72hrs after concreting
- No contamination of rebar
- Better interlock for structures
- Can be used on any dry surface
- No need to paint or spray-on

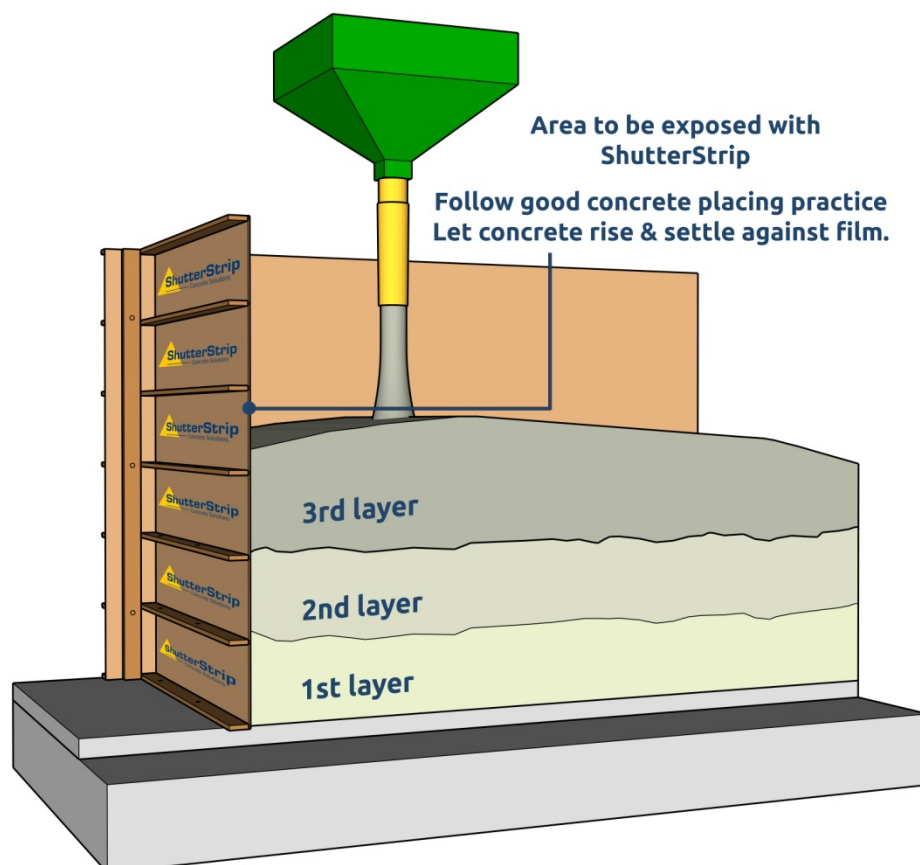
## FORMWORK/SHUTTER PREPARATION

Before application, it is recommended to wipe clean and dry the desired area of the formwork/shutter to achieve the best adhesive bond of Construction joint film to the Formwork/shutter. ShutterStrip can be applied to wood, metal, polystyrene and plastic moulds.

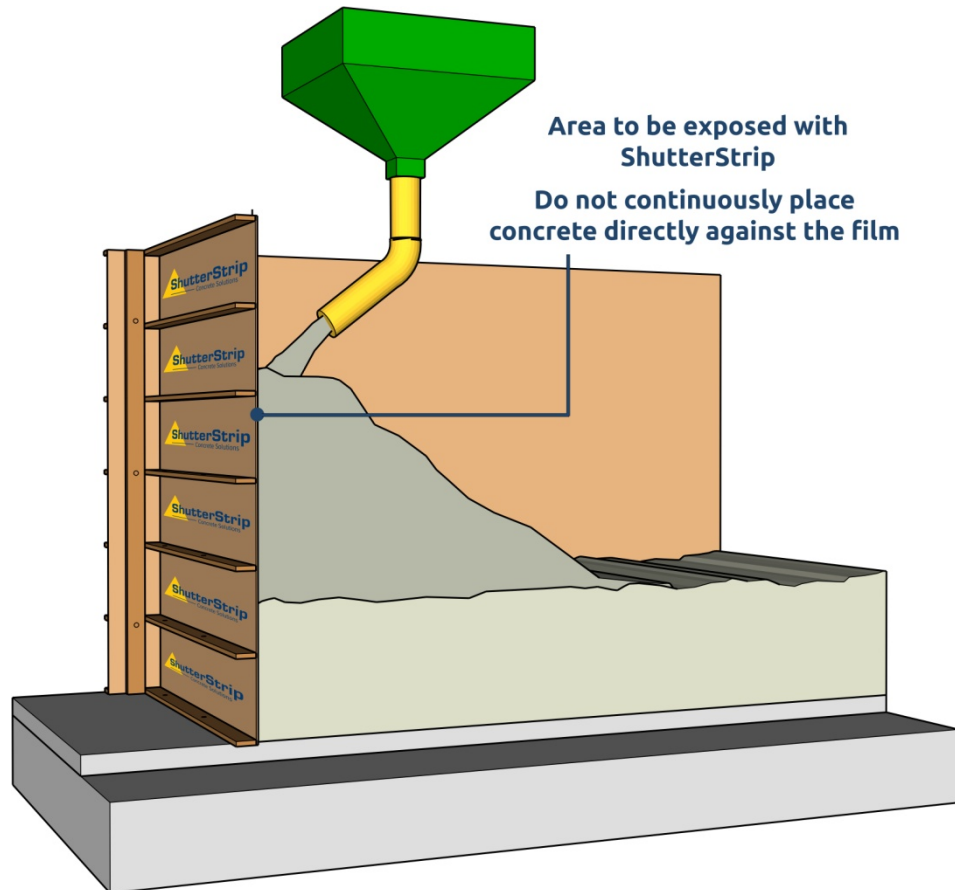
## APPLICATION

- 1) First, remove the back liner to reveal the adhesive back and stick it to any area of the formwork/shutter.
- 2) Once in place, apply pressure all over the film to achieve a good bond for extra security or if the film is being placed up to 2 hours before concreting or in adverse conditions **A)** If formwork is wood, use pins, tacks or a stapler and secure the retarder film to the formwork shutter **B)** If formwork is not wood then use sticky tape and stick across edges. (Remembering to lift the corners of the protective liner before securing or applying tape)
- 3) When ready for concreting, remove the protective liner to reveal the retarder film and dispose of the liner following site rules.

## WHEN PLACING CONCRETE INTO THE FORMWORK



- 1) Good concrete placing practices must be taken. Treat the area that is to be exposed the same as if it was a finished product. Make sure the layers are well vibrated together and that the face is well vibrated or the outside shutter is tapped/hammered all over.



- 2) Do not continuously pump/place concrete directly against the area of the formwork shutter that the retarder film has been applied to. If there is no other option to this, place a strong plastic sheet over the retarder film and when the shutter is being loaded, pull the plastic sheet up accordingly, allowing the concrete to come into contact with the film. If these procedures are not followed, this could result in the film being rubbed away, leaving areas of unexposed aggregates.

## REMOVING LAITANCE/EXPOSING AGGREGATE

When the underlying concrete has hardened and the formwork/shutter has been removed, the de-activated area will be visible, scrape the visibly affected area and then wire brush or jet wash with water to expose the aggregate depth of 3mm to 5mm.

Depending upon the temperature and as determined by the approved mock-up panel, it is recommended to expose the aggregate as soon as the formwork has been stripped. If the laitance has started to harden, simply jet wash with water and continue with a wire brush!

**Laitance should be removed within 72hrs of concreting.**

Suitable PPE, including protective gloves, safety glasses/goggles/dust mask and protective clothing should be worn if wire brushing or jetwashing.

If any of the films are left on the formwork shutters, wash them down with water, and if needed, remove the adhesive layer by peeling it from the formwork.

## **TECHNICAL INFORMATION**

Proceed with the application after approval of the test area. Results may differ based on statistical variations depending upon concrete mix, temperature and humidity and actual site conditions and curing conditions.

## **HANDLING AND STORAGE**

- No known dangers to handling.
- The product and packaging are flammable when exposed to fire.
- Store in original packaging closed and in a cool, dry environment.
- Freezing Point: Approximately 0°C, but when the temperature returns to normal, the performance of the product is unimpaired.
- Not regulated as dangerous for transportation.
- Not classified as a marine pollutant.

## **DISPOSAL CONSIDERATION**

Dispose of by site rules and local regulations. All used packaging should be taken to an approved waste handler for recycling.

## **SHELF LIFE**

Shelf life in original, unopened packaging is 2 years from the date of purchase.

## **PRODUCTION**

**Manufactured in India to ISO 9001: 2008**



## CONSTRUCTION PRODUCTS REGULATION (CPR) - NO 305/2011



### QUALITY CONTROL

The product is checked for quality before being dispatched, and each batch is checked for performance and is visually checked before being packaged.

**The packaging is produced from recycled cardboard.**



### LEGAL DISCLAIMER

**KEEP PACKAGING CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY • FOR PROFESSIONAL USE ONLY**

The information provided in this Technical Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material use in combination with any other materials or any process unless specified in the test.

**PRODUCT NAME:** Concrete Construction Joint Film **DATE:** 23-10-2022

**FUNCTION:** Concrete Surface Retarder **REV:** 1.3

**COMPANY:** ShutterStrip Concrete Solutions Ltd.

**ADDRESS:** ShutterStrip Concrete Solutions Ltd, 13 Palmarsh Crescent, Hythe, Kent CT216NU

**CONTACTS:** [enquiries@shutterstrip.co.uk](mailto:enquiries@shutterstrip.co.uk) Tel: +44 (0)7392 950315