



TRICEL
GENERATIONS OF INNOVATION

HPX

HYBRID POLYMER ROOFING SYSTEM



INSTALLATION MANUAL

WHAT IS HPX?

HPX is a hybrid technology & features high elasticity even under changing weather variations. It has high adhesion properties even with temperature variations, the liquid membrane system doesn't harden under cold weather conditions.

HPX is a solvent-free and ideal for repairs and roofing applications.

- ▶ HPX is a **Premium Hybrid Polymer roofing system** that repairs, restores, waterproofs and protects.
- ▶ Adheres to most substrates incl. **asphalt, felt, rubber, concrete, most metals, roofs and Fibre cement boards** e.g. Multipro, aqua panel, fermacell
- ▶ Ideal for **roofs, balconies, terraces** and **wet rooms**
- ▶ Can be used as a **tanking system**
- ▶ **Exceptionally flexible** (up to 300% its normal size)



WHY USE THE TRIROOF HPX SYSTEM?

- ▶ One coat application, easy to use. Reinforcement with CSM is required for 20 year guarantee.
- ▶ Solvent-free, non-flammable
- ▶ Remains breathable until cured, allowing moisture to evaporate
- ▶ Contains stain reducing properties
- ▶ Can be laid onto damp surfaces
- ▶ Tack-free time: 2-4 hrs
- ▶ Full cure time: 8-16 hrs
- ▶ Fibre-free formula
- ▶ 10 & 20 year materials guarantee available*

HPX PREPARATION OF SUBSTRATES

Surfaces should be clean, free from any oil, grease, debris, or any other contaminants that may affect adhesion.

All surfaces should be degreased, either with Acetone, Detergent and washed off thoroughly.

All loose materials must be removed by brushing, scraping or high-pressure water.

All repair **MUST** be carried before application commences.

New concrete and mortars must be at least 28 days old. Any organic growth should be treated with a Fungicidal Wash.

Metal surface should be clean and free from rust and or flaking debris.

Flex primer must be used if HPX has been applied on any untested surfaces such as Asphalt and Bitumen. Guarantees will only be valid on these surfaces if Flex primer is used.

HPX APPLICATION RATES

- ▶ Felt – 10 year Guarantee -1.8kg per 1m² 1st coat
- ▶ Felt – 20 year guarantee – 800g first coat per 1m² , 1.8kg 2nd coat
- ▶ OSB/Timber – 10 year Guarantee -1.6kg per 1m²
- ▶ OSB/Timber – 20 year guarantee – .700kg 1st coat per 1m² , 1.6kg 2nd coat
- ▶ Metal 10 year Guarantee -1.6kg per 1m²
- ▶ Metal – 20 year guarantee – .700 first coat per 1m² , 1.6kg 2nd coat
- ▶ All over substates please contact a Triroof representative at **www.triroof.co.uk**



HPX APPLICATION TOOLS

- ▶ **Short pile roller(s)** – Short pile will aid the movement of the liquid, a squidgee, trowel or adhesive spreader, can also be used to initially move the products around the desired areas
- ▶ **Paddle roller** – This is essential for using for the 20 year guarantee for consolidating the CSM layer.
- ▶ **Scraper** to remove loose and stubborn debris
- ▶ **Acetone** for cleaning, degreasing and clean up
- ▶ **Rags/Cloths** to wipe up spills/drips with acetone clean up

ESSENTIAL FIRST STEP FOR SUBSTRATE REPAIR

- ▶ Follow steps on page 4 "Preparation of Substrates"
- ▶ For all splits, holes, tears etc, a bandage strip/patch must be applied prior to first layer being laid.
- ▶ For tears in felt or membranes, stitch with felt nails prior to bandaging/patching
- ▶ Apply a thin layer of HPX to the clean, Dry surface over and 50mm either side of tear/hole.
- ▶ Using 450gm CSM, Cover the repair then using a paddle roller to consolidate the liquid fully through the matting until no white CSM is visible.
- ▶ Allow to fully cure for 8 hours
- ▶ Using 40grit sandpaper, lightly sand then clean off with acetone.
- ▶ If just doing a patch repair, apply heavier 2nd layer over the bandage/patch at 1.8kg per sqm, if doing a complete roof recover, then follow guidelines for the 1st initial layer.

APPLICATION 10 YEAR 1 COAT SYSTEM

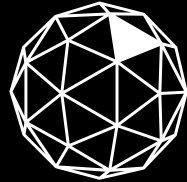
- ▶ (1) Making sure all repairs are fixed, ensuring substrate is free from any contaminants and no standing water is present (see Page 5)
- ▶ (2) Measure the area (depending on substrate) to ensure the correct coverage is applied. Felt – 10 year Guarantee -1.8kg per m² 1st coat or OSB/ Timber 10 year Guarantee -1.6kg per m²
- ▶ (3) Cut the corner of the foil sealed and in a snaking motion create beads about 2 inch's apart covering 1m² at a time.
- ▶ (4) Using a short piled roller or paddle roller, slowly push the product around ensuring even coverage.
- ▶ Immediately move on to the next 1m² area
- ▶ Ensure allowed to cure for min 2-3 hours before rain resistant

APPLICATION 20 YEAR 2 COAT SYSTEM

- ▶ Measure the runs for the 225gm CSM, store the rolled matting in a clean dry environment, always overlap the feathered edge onto the cut edge by 50mm minimum.
- ▶ Follow steps 1-4 on page 7 - 1 coat system. Coverage for 1st layer 800g per sqm for Felt and 700g per sqm on OSB/Plywood.
- ▶ Place the matting onto the newly applied HPX and with a clean paddle roller, roll the matting into the HPX slowly and with pressure ensuring you work all the matting including edges until no white of the CSM is showing through and all matting is fully bonded to the substrate.
- ▶ Move onto the next 1m² area making sure a continuous flow from each section.
- ▶ Allow to cure fully for 8 hours
- ▶ Lightly sand (40 grit) catching any unsightly fibres and cut any excess cured matting protruding , wipe down with acetone creating a good key for the 2nd coat.

APPLICATION 20 YEAR 2 COAT SYSTEM CONT.

- ▶ Apply the heavier second coat of HPX ensuring no pinholes are present, 1.8kg per sqm for Felt or 1.6kg per sqm for OSB/Plywood. If Pinholes are present cut the area out and repeat all stages.
- ▶ Make sure the whole area is evenly covered with no excessive deep areas.
- ▶ Allow to cure for 8 hours.



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