

## SBS Modified Bitumen Waterproofing Membranes Reinforced with Composite Polyester (P)

### What is HYPERFLEX ?

Produced exclusively for CIC Ltd - CIC HYPERFLEX is a line of polymer-modified bitumen waterproofing membranes of the highest quality.

CIC HYPERFLEX is modified by SBS thus guaranteeing high flexibility under tropical temperatures.

CIC HYPERFLEX is reinforced with composite polyester (P) of non-woven armoured with glass fiber filaments which provides highly mechanical properties and dimensional stability.

### Uses

CIC HYPERFLEX is a high performance membrane, can be applied virtually anywhere where torch applied modified bitumen membranes subject to high mechanical stresses are specified.

CIC HYPERFLEX can be applied in:

- Single layer roofing system
- Foundations and underground structures subject to movement
- Waterproofing of toilets, wet areas inside buildings.



SR / AL Roof Waterproofing



Tanking – Water Retaining

### Advantages of CIC HYPERFLEX

- Easy to apply (by torch)
- Highly mechanical properties
- Absolute impermeability to water
- Resistant to chemical attack
- Excellent high temperature performance
- Excellent adhesion to any surface
- High dimensional stability
- Environmentally friendly



Carafra Industrial Composites

# HYPERFLEX WPM / DPM

## Quality Control

CIC Hyperflex is ISO 9001 certified. It applies a stringent quality control system utilizing its in-house laboratory.

Occasional samples are analysed by independent laboratories to ensure continued adherence to the highest standards (ASTM, DIN, UNI, etc).

## Product Range

Standard thickness available includes 3mm and 4mm. Upper surface finishes are: 3mm PE, 4mm PE, 3mm SR/AL. Some types could be available by weight 3kg/m<sup>2</sup> and 4kg/m<sup>2</sup>.

Bottom surface finish is normal Polyethylene Film (PE). Upper surface finish choices include:

- Polyethylene Film (PE)
- Fine Sand (S)
- Mineral Granule Grey (MG)
- Mineral Granule Green (MGRN)
- Mineral Granule Blue (MBL)
- Mineral Slated Grey (GY)
- Mineral Slated Green (GRN)
- Mineral Slated White (WT)
- Mineral Slated Red (RD)

Slated rolls are available in 4kg, 4.5kg and 5kg per square meter.

The nominal length of each roll is 10 meters and the nominal width is one meter.

Special specification can be designed based on clients needs.



Roof Waterproofing



Tanking – Water Excluding



Sub-structure Tanking

## Carafra Industrial Composites Ltd Nigeria

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# HYPERFLEX

## WPM / DPM

### OTES

bove results are based on 4mm membrane  
olerance within 20% of the above results for mechanical characteristics  
ue to constant produce improvements, CIC reserves the right to  
ange above values without advance notice. **APPLICATION**

### ISTRUCTIONS

CIC HYPERFLEX membranes are installed by propane torch welding method, loose laid or fully bonded to the substrate depending on system requirements.

While unloading from truck the rolls shall by no means be allowed to fall or be thrown down from the truck.

To avoid apply the membrane to corners with 90 deg angle, sand cement cant strip 5x5cm should be executed at horizontal – vertical intersections

Surface should be waterproofed should be clean, dry, free from dust and smooth, in case of irregular surface a sand cement screed is recommended.

Before laying Hyperflex, membranes, surface should be primed with cold applied bituminous primer (NIROL – S)

Membrane is unrolled and placed in aligned position. Each roll should overlap the next by 10cm side laps and 15cm staggered end laps. • Then membrane should be rolled about half of its length without changing its orientation.

Using a propane gas torch the membrane is un-rolled again slowly while applying the flame to the entire exposed lower face. Until the plastic cover film burns off and the bituminous mass starts melting, thus creating a heat weld between the membrane and the substrate.

Then torching of the seams takes place by heating the contact line at side and end laps by torch from above, pressing the upper membrane on to the lower one using a trowel, the torch has to be carefully used avoiding to keep the flame on the same point for too long.

For sloping roof start laying the membrane from the lower edge with longitudinal direction of rolls perpendicular to slope direction, side lap of next roll to be place above the first one etc...

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