Griptop HD Method Statement
(Heavy-duty polyurethane floor screed)

Section A : General Comments

Equipment

It is suggested that the following list of equipment is adopted as a minimum requirement:

Protective clothing	:	*Protective overalls*
	:	*Good quality gloves, goggles and face mask*
Mixing equipment	:	*Paddle mixer attached to slow electric drill*
	:	*Jiffy-type mixer*
	:	*Casco or Creteangle type mixer*
Application equipment	:	*Straight edge steel trowel, nap roller, duct tape*
	:	*Wooden battens, saw cutting machine, scabbling machine*

Section B : Application

1.0 Surface Preparation

1.1 Moisture content of new concrete, or any cementitious substrates should be less than 5% or relative humidity should be 75% or less. Normally this range of moisture content can be achieved for concrete age over 28 days.

1.2 The substrate should be dry, clean and free from any laitance, wax, grease, dirt and oil or any materials could affect the bond.

1.3 Suitable Mechanical method such as light sand/grit blasting should be used to remove any existing laitance, old coating or surface treatments like the curing compound, oil, etc.

Note: If the surface is contaminated by oil or grease, it is recommended to consult our technical department to advice for the suitable method for removing the contamination.

1.4 All cracks and spalled concrete should be repaired before starting the application as recommended by our technical department.

1.5 All blow holes and minor imperfection should be repaired by epoxy paste using Quickmast 341.

1.6 20 mm deep x 8 mm wide groove having a neat square edge should be saw cut around the edges of the floor, 150 mm from the walls and running parallel with the walls and adjacent to any door entrance terminations, or any finished edge, i.e all sides of day work joint, to ensure strong bond to the substrate.

1.7 Install wooden battens on the edges of any flooring bay to be worked on to help with the levelling of the floor. The battens should be masked with duct tape including the upper and lower edges to prevent the Griptop flooring from sticking to the battens.

Masking tape & saw cutting around the floor

2.0 Priming

2.1 Scratch coat of Griptop HD; by mixing the Base Pack + Hardener Pack + 1/2 Filler Pack, should be applied by trowel at 0.5 - 1.0 mm prior to the application of the product itself as floor topping in order to provide a mechanical key between the substrate and the floor coating.

2.2 The scratch coat should be left for 24 - 48 hours to cure before the application of Griptop HD.

2.3 If the scratch coat is left for more than 48 hours, it is recommended to abrade the coat and apply a fresh coat.

Notes:

- *For surfaces with relative humidity between 75 and 85%, prime with one coat of Strongcoat DPM and allow drying prior the application of the scratch coat.*
- *For surfaces with relative humidity 86% and higher, prime with two coats of Strongcoat DPM and allow the second coat to dry before priming with scratch coat.*
- *Surfaces may also be primed with Strongcoat Primer on which 0.7 – 1.2 mm dry quartz aggregate is scattered at approximately 0.5 kg/m².*

3.0 Mixing

3.1 Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the Griptop HD Hardener container into the Resin container.

3.2 Using a Jiffy-type mixer attached to a slow running electric drill, mix for approximately 2 minutes.

3.3 Once the Griptop HD Hardener and Resin have been mixed, transfer all the mixed material into a Casco or Creteangle-type mixer, taking care to ensure that the bottom and sides are thoroughly scraped.

3.4 Start the mixer and transfer to it the entire contents of the Griptop HD Filler container, taking care to ensure that these are completely dry and lump-free. Continue mixing for approximately 2 minutes.

Notes:

- *Never mix Griptop HD by hand as this could lead to areas of uncured material.*
- Never leave the mixed Griptop HD kit to stand for any length of time prior to application as this will considerably shorten its working time.

Creteangle type mixer

4.0 Application

4.1 Once mixing is complete, transfer the Griptop HD to the primed surface and level between battens as necessary using a straight-edged steel trowel to obtain a thickness of 9 mm.

4.2 When applying each kit of Griptop HD, leave approximately 200 mm of the closest working edge untroweled as this will help the blending in of the next kit.

4.3 Back-roll the applied Griptop with a nap roller in a single pass with the weight of the roller.

Notes:

- *The nap roller should be changed every hour, as the material sticks on the roller causing it to dry and become inefficient.*
- *Take care not to excessively trowel the Griptop HD as this will lead to burnish marks on its surface.*
- *Griptop HD is not colour stable and may discolour on ageing and exposure to UV light, especially with light colours. This will not adversely affect the performance of the product*.

5.0 Coving

5.1 Wall-floor insulation joints are filled with a joint filler.

5.2 The joint filler is covered with a separation layer of polyethylene sheet, starting from the wall and extending to reach a width of 50 mm.

5.3 Make a saw cut through the concrete floor of 8 mm width and 20 mm depth at distance 150 mm away from the wall, and another similar cut in the wall at a height of 100 mm from the floor, to ensure strong bond to the substrate.

5.4 Mixing of Cove Pack:

5.4.1 Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the Griptop Cove Pack Part B container into the Part A container and, using a Jiffy-type mixer attached to a slow running electric drill, mix for approximately two minutes.

5.4.2 Transfer the entire contents of the Part A container into a Casco or Creteangle-type mixer, taking care to ensure that the bottom and sides are thoroughly scraped.

5.4.3 Start the mixer and transfer to it the entire contents of the Griptop Cove Pack part C container, taking care to ensure that these are completely dry and lump-free. Continue mixing for approximately 2 minutes.

Note: Never mix Griptop Cove Pack by hand as this could lead to areas of uncured material.

5.5 Once mixing is complete, transfer the Griptop Cove Pack to the primed surface and, using a combination of straight-edged and coving trowels, apply it evenly over this.

5.6 Sealer:

5.6.1 Mixing of the sealer: mix the aggregate with resin component thoroughly to form a paste like consistency then add the hardener and continue to mix.

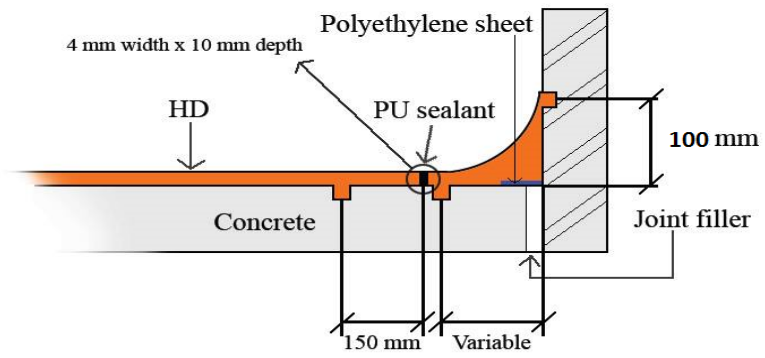
Note: Never mix Griptop Cove Pack Seal by hand as this could lead to areas of uncured material.

5.6.2 Application: once mixing is complete, apply **immediately** by brush or roller approximately 3 - 5 m²/kg per coat to form a smooth, even coat. No later than 24 hours apply a second coat.

Note: Do not apply too thickly as this can lead to a reduced cure speed and inconsistency of colour and gloss.

5.7 After two days, at the interaction point between the flooring and the coving, saw cut a groove of 4 mm x 10 mm, then fill with Flexseal PU440.

Coving Details



6.0 Drainage Boxes

6.1 In case drainage boxes exist, they should be installed 8 - 9 mm above the concrete finish level to allow the application of the Griptop floor to be flush with the drains.

6.2 Two day after application of Griptop HD around drainage boxes, at the point of interaction between the drains and the Griptop flooring, saw cut a 4 mm width x 10 mm depth groove through the Griptop flooring then fill with Flexseal PU440.

7.0 Free-movement Joints, Expansion Joints and Door Terminations

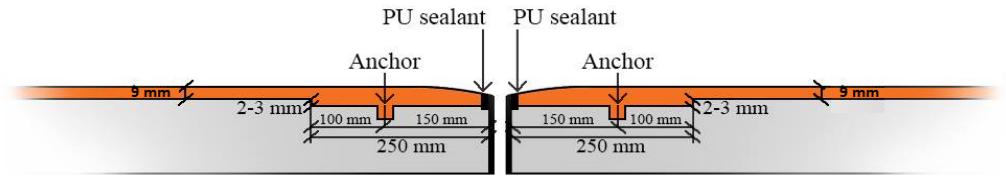
In areas where free-movement joints, expansion joints and door terminations exist, their edges should be elevated a distance of 4 mm from the ground to allow the applied Griptop flooring to be levelled with them, otherwise, if this has not been done and they were flushed with the concrete level, not taking into consideration the application of the Griptop flooring consequently, the following has to be done:

7.1 Grind concrete base at a depth of 2 - 3 mm and a width of 250 mm away from the door terminations, and in both directions for the joints using a scabbling machine to form a toe in.

7.2 Inside the grinded toe in, at a distance of 150 mm away from the joint, saw cut further more at 8 mm width x 20 mm depth, to make an anchor to ensure maximum bond is achieved.

7.3 Lay down Griptop HD using the method mentioned earlier, making sure that its level decreases as the joints are reached until it is levelled with the joints.

7.4 After two days, at the point of interaction between the steel plates and the Griptop flooring, saw cut a 4 mm x 8 mm groove through the Griptop flooring then fill with Flexseal PU440.



8.0 Cleaning

8.1 Tools and equipment can be cleaned with Quickmast Solvent.

Section C : Approval and variations

This method statement is offered by DCP as a 'standard proposal' for the application of **Griptop HD**. It remains the responsibility of the Engineer to determine the correct method for any given application. Where alternative methods are to be used, these must be submitted to DCP for approval, in writing, prior to commencement of any work. DCP will not accept responsibility or liability for variations to the above method statement under any other condition.