



6141H SPECIFICATIONS FOR HTC SUPERFLOOR™

1. GENERAL

This specification describes the steps required to achieve a polished concrete finish to new or old concrete for an HTC Superfloor™ to the required finish eg Platinum.

Related work

1.1 RELATED SECTIONS

Refer to CONCRETE PLACEMENT for concrete placing, finishing and curing.

Refer to CONCRETE PRODUCTION for mix design.

1.2 DOCUMENTS REFERRED TO

Documents referred to in this section are:

NZS 3114 Specification for concrete surface finishes.

Documents listed above and cited in the clauses that follow are part of this specification.

However, this specification takes precedence in the event of it being a variance with the cited document.

1.3 MANUFACTURERS DOCUMENTS

Manufacturers and suppliers documents relating to this section are:

HTC Cure Users Guide

HTC Stain Resistant Users Guide

HTC Filler Users Guide

HTC Joint Repair Users Guide

HTC Grouting Users Guide

Copies of the above literature are available from [Holer NZ Ltd](#)

Requirements

1.4 TECHNIQUE DISCUSSION AND FINISH STANDARD

Before commencing work, arrange a meeting to confirm the method of carrying out the work. Contractor to complete the Contractor Specification form and file with supplier. Select an area on site, grind and finish the selected area to achieve the agreed finish. When agreement is reached, this then becomes the finish standard for the balance of the work.

2. PRODUCTS



2.1 HTC CURE (PENETRATING HARDENER)

Seals the pores of the concrete and strengthens it

2.2 HTC STAIN RESISTANT (PENETRATING SEALER)

Gives the concrete surface protection against grease, oil and acid

2.3 HTC FILLER (GROUT)

Flexible polymer cement filler for filling large pores and shrinkage cracks

2.4 HTC JOINT REPAIR (GROUT)

Flexible polymer cement for joint filling and repairing damaged joints

2.5 HTC GROUTING

A product used to fill pores and cracks and is used during the HTC Superfloor™ process to satisfy high demands for pore free and homogeneous floors.

2.6 TWISTER (BURNISHING PAD)

Diamond cleaning pad for daily cleaning of HTC Superfloor. Also for applying Stain resistant sealer and buffing after floor finished.

3. EXECUTION

Conditions

3.1 HTC APPROVED CONTRACTOR

All grinding and polishing work is to be carried out by an HTC Approved contractor or an HTC Certified Contractor.

3.2 CONFIRM CONCRETE SURFACE

Confirm concrete surface is of the required standard for the concrete polishing and finishing process. Do not proceed if placed concrete is not capable of delivering the specified finish.

Seek written direction as to what action is required.

3.3 PLACING THE CONCRETE

The concrete floor must be to NZS 3114:1987, a classU3 Trowelled (Floor) finish.

3.4 PROTECTION

Cover Glass and other surfaces to protect from marking and damage caused by cementitious dust.

Application – HTC Superfloor Platinum™



3.5 FIRST GRIND

7 days minimum after placing the concrete, grind the floor with a 25 grit diamond (SF2 gold shoe) or a 40 grit diamond (SF3 grey shoe) Aggregate should be consistent over the surface.

3.6 SECOND GRIND

Grind the floor using a 60 grit diamond (SF4 brown shoe) to remove the large scratches from the first grind.

3.7 APPLY HTC FILLER / JOINT REPAIR / HTC Grouting

Grout the air holes left in the concrete surface. Grout construction joints and decorative cuts. Grind to remove grout after 8 hours with a 120 grit diamond (SF5 black shoe)

3.8 APPLY HTC CURE

Apply HTC Cure as per HTC's User Guide Instructions. Remove excess with a 120 grit diamond (SF5 black shoe)

3.9 POLISH FLOOR

After removing the excess HTC Cure, polish the floor starting with a 100 grit diamond (BB5 black plastic shoe), progressing to a 200 grit diamond (BB6 Blue plastic shoe), then a 800 grit diamond (BB8 white plastic shoe) and finally a 3000 grit diamond (FP60 green plastic shoe)

3.10 APPLY HTC STAIN RESISTANT

Apply HTC Stain Resistant as per HTC's User Guide Instructions. Apply a second coat after 6-8 hours. Buff the next day with Twister Green.

Application - HTC Superfloor Gold™

3.11 FIRST GRIND

7 days minimum after placing the concrete, grind the floor with 60 grit diamonds (SF4 Brown shoe) to expose the fines to desired level. Aggregate should be reasonably consistent over the surface.

3.12 APPLY HTC FILLER / JOINT REPAIR / GROUTING

Grout the air holes left in the concrete surface. Grout construction joints and decorative cuts. Grind to remove grout after 8 hours with a 120 grit diamond (SF5 black shoe)

3.13 APPLY HTC CURE

Apply HTC Cure as per HTC's User Guide Instructions. Remove excess with a 120 grit



diamond (SF5 black shoe)

3.14 POLISH FLOOR

After removing the excess HTC Cure, polish the floor starting with a 100 grit diamond (BB5 black plastic shoe), progressing to a 200 grit diamond (BB6 blue plastic shoe), then a 800 grit diamond (BB8 white plastic shoe) and finally a 3000 grit diamond (FP60 green plastic shoe)

3.15 APPLY HTC STAIN RESISTANT

Apply HTC Stain Resistant as per HTC's User Guide Instructions. Apply a second coat after 6-8 hours. Buff the next day with Twister Green.

Application - HTC Superfloor Silver™

3.16 FIRST GRIND

7 days minimum after placing the concrete, grind the floor with a 25 grit diamond (SF2 gold shoe) or a 40 grit diamond (SF3 grey shoe) Aggregate should be consistent over the surface.

3.17 SECOND GRIND

Grind the floor using a 60 grit diamond (SF4 brown shoe) to remove the large scratches from the first grind.

3.18 APPLY HTC FILLER / JOINT REPAIR / GROUTING

Grout the air holes left in the concrete surface. Grout construction joints and decorative cuts. Grind to remove grout after 8 hours with a 120 grit diamond (SF5 black shoe)

3.19 APPLY HTC CURE

Apply HTC Cure as per HTC's User Guide Instructions. Remove excess with a 120 grit diamond (SF5 black shoe)

3.20 POLISH FLOOR

After removing the excess HTC Cure, polish the floor starting with a 100 grit diamond (BB5 black plastic shoe), finishing to a 200 grit diamond (BB6 blue plastic shoe)

3.21 APPLY HTC STAIN RESISTANT

Apply HTC Stain Resistant as per HTC's User Guide Instructions. Apply a second coat after 6-8 hours. Buff the next day with Twister White.

Application – HTC Superfloor Bronze™

3.22 POLISH THE FLOOR



Polish the floor with 100 grit diamond (BB5 black plastic shoe), progressing to a 200 grit diamond (BB6 blue plastic shoe), finishing with an 800 grit diamond (BB8 white plastic shoe)

3.23 APPLY HTC CURE / STAIN RESISTANT

Apply as per HTC User Guide Instructions, buff the next day with Twister white.

Completion

3.24 PROTECT POLISHED CONCRETE

Protect floor from damage. Provide protection by laying sheet material for the period

between completion of the polishing and completion of the contract works.

4.0 SELECTIONS

4.1 REQUIREMENTS

On Site Standard: Required

4.2 CONCRETE FINISHES

HTC Superfloor Platinum™ - Deep grind and high polish

HTC Superfloor Gold™ - Light grind and high polish

HTC Superfloor Silver™ - Deep grind and low polish

HTC Superfloor Bronze™ - Polish only