



Nano-Silica Technology
for Concrete



Exposed Aggregate Process Finish Solutions.

A solution can be tailored to meet any gloss and price requirement.

Armourtech New Floor STD

Dust proofed Abrasion resistant floor with Light Shine
[Lythic Densifier](#)

Armourtech New Floor STD Plus

Dust proofed Abrasion resistant floor with Moderate Shine and extra Stain Protection.
[Lythic Densifier & Protector](#)

Armourtech New Floor Premium

Dust proofed Abrasion resistant floor with High Shine
[Lythic Densifier & Lythic Densifier XL](#)

Armourtech New Floor Premium Plus

Dust proofed Abrasion resistant floor with Extra High Shine and extra Stain Protection
[Lythic Densifier & Lythic Densifier XL & Protector](#)

Armourtech New Floor Ultimate

Dust proofed Abrasion resistant floor with Shine & Max Stain Protection
Suitable in light traffic areas
[Lythic Densifier & SPD Protector](#)

The quality and level of Diamond Polishing is always the starting point of a good polished floor. Discover how to reduce cost and time, boost performance and offer new options for floor finishes you didn't know were possible with Lythic Solutions.

Contact us to receive specification documents for each of the solutions.

www.concretesealers.co.nz



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ARMOURTECH NEW FLOOR STD FINISH

PERFORMANCE SPECIFICATION FOR POLISHING USING THE LYTHIC
EXPOSED AGGREGATE FLOOR SYSTEM –

Dust proofed Abrasion resistant floor with Light Shine.

This specification is provided as a service and is intended to be used as a guideline for preparing the appropriate project specific specification sections.

The quality and level of Diamond Polishing is always the starting point of a good polished floor.

EXECUTION

SURFACE CONDITIONS:

Examine substrate for conditions affecting performance of finish.

Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected.

A. Verify that base slab is clean of any mastic or adhesives from previous floor coverings, loose debris, dirt, mildew, oils and grease and efflorescence, curing and latent construction materials.

B. New concrete must be in place a minimum of 28 days or as directed by the Manufacturer before application can begin.

APPLICATION

1. Grind to expose aggregate.
2. Float cementitious skim coat product over the floor to fill pinholes.
3. At approx 120-200 grit grind apply **Lythic STD Densifier**. Apply with airless sprayer.
4. Keep surface wet for 15 - 20 minutes and let dry. No need clean up excess.
5. Approx 1 hr after application polishing can continue to your usual ending grit.



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Final step Lythic Protector System (optional)

Lythic Protector is recommended, as a contaminant barrier and to increase the shine and depth of colour.

Surface should be completely clean and dry before application of Lythic Protector.

Using a low-pressure pump sprayer, apply Lythic Protector in a **light mist**. Using a damp micro fibre or flat cotton pad applicator, spread Lythic Protector in a **thin film coat** using a figure 8 motion to reduce streaking and to prevent puddling.

Once completely dry use floor stripper pads to smooth out the Protector barrier (Black Stripper Pad) Then burnish with Hogshair pad or similar/ **OR** use **diamond impregnated pads** will do the same as the 2 step process as described above. Burnishing with a minimum **2000** RPM machine.

For this burnish achieve a concrete surface Temp of **32C**. A hand held digital temperature device is ideal for this purpose and can be purchased from **Jaycar** 16-18 Fisher Crescent Mt Wellington, Ph. 0800 452 922 model number is **QM7215**

Allow finished floor to cure for 24 hours before allowing regular foot traffic. Wait 72 hours before leaving standing water. Protector is only for Indoor usage.

Cure finished floor for 24 hours before allowing regular foot traffic. Do not allow standing water to remain on the surface for the first 72 hours.

Reapplying Protector and burnishing can renew the shine.

1. Applicable procedures must be followed as recommended by the product manufacturer.

C. FINAL PROTECTION

1. Following completion of the final polishing, surface must be covered to protect from other trades. Cover with breathable product, such as kraft paper, "Ram Board". Do not cover with rosin paper. Plywood protection to have 4 mil plastic slip sheet barriers between wood and slab.

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ARMOURTECH NEW FLOOR PREMIUM FINISH

PERFORMANCE SPECIFICATION FOR POLISHING USING THE LYTHIC EXPOSED AGGREGATE FLOOR SYSTEM –

Dust proofed Abrasion resistant floor with High Shine.

This specification is provided as a service and is intended to be used as a guideline for preparing the appropriate project specific specification sections.

The quality and level of Diamond Polishing is always the starting point of a good polished floor.

EXECUTION

SURFACE CONDITIONS:

Examine substrate for conditions affecting performance of finish.

Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected.

A. Verify that base slab is clean of any mastic or adhesives from previous floor coverings, loose debris, dirt, mildew, oils and grease and efflorescence, curing and latent construction materials.

B. New concrete must be in place a minimum of 28 days or as directed by the Manufacturer before application can begin.

APPLICATION

1. Grind to expose aggregate.
2. Float cementitious skim coat product over the floor to fill pinholes.
3. At approx 120-200 grit grind apply **Lythic STD Densifier**. Apply with airless sprayer.
4. Keep surface wet for 15 - 20 minutes and let dry. No need clean up excess.
5. Approx 1 hr after application polishing can continue.
6. Then polish to your usual ending grit and apply one thin application of **Lythic XL Densifier** with spray application and spread with Micro-fiber applicator pad to help prevent streaking. An even layer application is important. **(or)** prior to final grind step apply thin application of **Lythic XL Densifier**
7. Then finish with ending grit.



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Final step Lythic Protector System (optional)

Lythic Protector is recommended, as a contaminant barrier and to increase the shine and depth of colour.

Surface should be completely clean and dry before application of Lythic Protector.

Using a low-pressure pump sprayer, apply Lythic Protector in a **light mist**. Using a damp micro fibre or flat cotton pad applicator, spread Lythic Protector in a **thin film coat** using a figure 8 motion to reduce streaking and to prevent puddling.

Once completely dry use floor stripper pads to smooth out the Protector barrier (Black Stripper Pad) Then burnish with Hogshair pad or similar/ **OR** use **diamond impregnated pads** will do the same as the 2 step process as described above. Burnishing with a minimum **2000** RPM machine.

For this burnish achieve a concrete surface Temp of **32C**. A hand held digital temperature device is ideal for this purpose and can be purchased from **Jaycar** 16-18 Fisher Crescent Mt Wellington, Ph. 0800 452 922 model number is **QM7215**

Allow finished floor to cure for 24 hours before allowing regular foot traffic. Wait 72 hours before leaving standing water. Protector is only for Indoor usage.

Cure finished floor for 24 hours before allowing regular foot traffic. Do not allow standing water to remain on the surface for the first 72 hours. Reapplying Protector and burnishing can renew the shine.

FINAL PROTECTION

Following completion of the final polishing, surface must be covered to protect from other trades. Cover with breathable product, such as kraft paper, "Ram Board". Do not cover with rosin paper. Plywood protection to have 4 mil plastic slip sheet barriers between wood and slab.



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ARMOURTECH NEW FLOOR ULTIMATE FINISH

PERFORMANCE SPECIFICATION FOR POLISHING USING THE LYTHIC EXPOSED AGGREGATE FLOOR SYSTEM

Dust proofed Abrasion resistant floor with Shine & Max Stain Protection – Suitable for light traffic areas

This specification is provided as a service and is intended to be used as a guideline for preparing the appropriate project specific specification sections.

The quality and level of Diamond Polishing is always the starting point of a good polished floor.

EXECUTION

SURFACE CONDITIONS:

Examine substrate for conditions affecting performance of finish.
Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected.

A. Verify that base slab is clean of any mastic or adhesives from previous floor coverings, loose debris, dirt, mildew, oils and grease and efflorescence, curing and latent construction materials.

B. New concrete must be in place a minimum of 28 days or as directed by the Manufacturer before application can begin.

APPLICATION

1. Grind to expose aggregate.
2. Float cementitious skim coat product over the floor to fill pinholes.
3. At approx 120-200 grit grind apply **Lythic STD Densifier**. Apply with airless sprayer.
4. Keep surface wet for 15 - 20 minutes and let dry. No need clean up excess.
5. Approx 1 hr after application polishing can continue to your usual ending grit.
6. Once surface completely clean and dry apply **Lythic SPD Protector**.

Max finish grit to ensure adhesion of **Lythic SPD Protector** shall be 1500 grit.

After 24 hours, surface can be burnished using a red pad, hogs hair pad, or a fine diamond fiber pad to enhance the finished surface.

Allow 24 hours to dry before light traffic. SPD Protector reaches full cure in 72 hours. Do not allow any liquids on the surface until material reaches full cure.

C. FINAL PROTECTION

Applicable procedures must be followed as recommended by the product manufacturer.



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HARDWEAR FLOOR FINISH

PERFORMANCE SPECIFICATION FOR POLISHING USING THE LYTHIC HARDWEAR FLOOR SYSTEM –

Dust proofed Abrasion resistant floor with reflectivity.

This specification is provided as a service and is intended to be used as a guideline for preparing the appropriate project specific specification sections.

EXECUTION

SURFACE CONDITIONS:

Examine substrate for conditions affecting performance of finish. Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected.

A. Verify that base slab is clean of any mastic or adhesives from previous floor coverings, loose debris, dirt, mildew, oils and grease and efflorescence, curing and latent construction materials.

B. New concrete must be in place a minimum of 28 days or as directed by the Manufacturer before application can begin.

APPLICATION

New, Hard-Trowelled floors

1. Clean surface with cleaner and water and some kind of agitation (use of stripper pads is ideal) to remove any loose material.
2. Apply **Lythic** Densifier – keep wet for **15-minutes**
3. After it dries, remove dried material by cleaning again – using stripper pads and water. Allow to damp dry.
4. Apply **Lythic XL** Densifier – keep wet for **15-minutes**
5. After it dries, remove dried material by cleaning again – using stripper pads and water
6. Once completely dry burnish concrete with Hogs Hair or Green Twister pads. Or apply Lythic Protector and then burnish with high-speed burnishing pad Hogs Hair or Green Twister pads are an option.

Existing slabs

1. Grind to remove residues and hone at 80 or 100-grit resin.
2. Apply **Lythic** Densifier – keep wet for **15-minutes**
3. After it dries, remove dried material by cleaning again – using stripper pads and water. Allow to damp dry.
4. Apply **Lythic XL** Densifier – keep wet for **15-minutes**
5. After it dries, remove dried material by cleaning again – using stripper pads and water
6. Once completely dry burnish concrete with Hogs Hair or Green Twister pads. Or apply Lythic Protector and then burnish with high-speed burnishing pad Hogs Hair or Green Twister pads are an option.



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Final step Lythic Protector System (optional)

Lythic Protector is recommended, as a contaminant barrier and to increase the shine and depth of colour. Surface should be completely clean and dry before application of Lythic Protector. Using a low-pressure pump sprayer, apply Lythic Protector in a **light mist**. Using a damp micro fibre or flat cotton pad applicator, spread Lythic Protector in a **thin film coat** using a figure 8 motion to reduce streaking and to prevent puddling.

Once completely dry use floor stripper pads to smooth out the Protector barrier (Black Stripper Pad) Then burnish with Hogshair pad or similar/ **OR** use **diamond impregnated pads** will do the same as the 2 step process as described above. Burnishing with a minimum **2000** RPM machine.

For this burnish achieve a concrete surface Temp of **32C**. A hand held digital temperature device is ideal for this purpose and can be purchased from **Jaycar** 16-18 Fisher Crescent Mt Wellington, Ph. 0800 452 922 model number is **QM7215**

Allow finished floor to cure for 24 hours before allowing regular foot traffic. Wait 72 hours before leaving standing water. Protector is only for Indoor usage. Reapplying Protector and burnishing can renew the shine.