

LUSTER SHIELD™

PRODUCT DESCRIPTION & TECHNICAL DATA



Technical Memo 105-LS 7/12/06

THE NAME SAYS IT ALL

Breathable, tough attractive, easy care, low slip coating with excellent oil, chemical, acid and water repellence.

Luster Shield™ with Densi-Proof as a system gives total concrete protection with an attractive, easy to maintain, stain resistant environmentally friendly finish. It's got the lot! Independent slip testing carried out by **Advanced Technology Testing and Research - ATTAR-** and the **CSIRO** on diamond honed, trowel and broom finished concrete, showed a better slip resistance and was classified R13 with the Oil Wet Ramp Test Method. These reports are available in Pdf format on request.

Section 1 Product Name

Luster Shield™

Section 2 Product Description

Luster Shield™ is a high-quality, proprietary formula aqueous acrylate dispersion with an effective water repellent additive, that when applied and fully dried / cured, develops into a strong, durable, flexible, and breathable film-coating which adheres tenaciously to clean bare concrete surfaces, render and masonry. Luster Shield™ is non-flammable, odourless, penetrating coating that will dry to a clear attractive satin finish.

Section 3 Basic Use

Luster Shield™ provides an highly attractive finish that is extremely durable. Luster Shield™ was developed to protect today's decorative concrete surfaces and to provide the same protection to plain, grey concrete. Luster Shield™ is similar to Surface Save & Seal™, in that it provides a tough breathable membrane coating, yet has the Surface Repeller's™ highly desirable feature of making surfaces more stain resistance. (For more information on Surface Save & Seal™ and/or Surface Repeller™, refer to their Technical Data Sheets.)

Luster Shield™ helps to maintain cleaner surfaces and preserve the original appearance of the treated surface for much longer period of time. Luster Shield™ prevents the penetration of water, liquids and other contaminants into the treated surfaces. Luster Shield™ is an excellent waterproofer that will improve fungus and mildew resistance. Luster Shield™ also significantly retards efflorescence while imparting significant additional resistance against freeze-thaw damage, such as cracking, spalling, etc..

Section 4 Application Procedures

Luster Shield™ application may be made using almost any convenient method, i.e., paint roller, brush, sprayer, flood-on and spread with a roller or squeegee, and Luster Shield™, applied as a film, is recommended applied as thin as is practical for optimal strength development. Back roll when Luster Shield™ has developed some tackiness, this will ensure the film thickness is uniform and not thick in the "valleys" and thin on the high spots of the floor. Back rolling

also enhances the finished appearance giving a generally higher satin finish. Drying time varies due to application thickness, temperature, ambient drying factors, and relative humidity. Luster Shield™ should not be applied when temperature falls below 12°C, as this will slow drying and curing times. A minimum of 24 hours drying / curing time, following application, should be allowed for strength development before allowing heavy-duty service / traffic. Depending on the smoothness and preparation of the concrete surface an easy applied, low maintenance high gloss finish can be achieved with Luster Keep™. Contact us for advice and training for the ongoing maintenance of your new floor.

Section 5 Precautions

Incidental contact with Luster Shield™ is not hazardous, protective clothing is not necessary. Avoid contact with eyes, if eye contact is made rinse thoroughly with water, and should irritation develop get medical attention. If ingested drink water, induce vomiting, seek medical attention. Protect areas not intended for coverage. Do not apply Luster Shield™ when ambient temperature drops below 12°C or above 36°C.

Section 6 Technical Data

Product Type: Acrylate aqueous dispersion

pH Range: 7-8

VOS/VOC Content: Insignificant trace of VOC

Colour: Milky-White

Dried Colour: Clear

Specific Gravity: 1.04

Elongation at 3 & 10 Mils: 100% to 4-500%

Flash Point: None

Fire Decomposition Products: CO, CO₂, NOX

Solids Content: 25-30

Freeze Point: 0°C

Freeze Harm: Possible

Storage Temperature Minimum: 10°C

Ensure you contact your nearest PROTECT CRETE office for full technical bulletins and latest application procedures.