



3M™ Scotchcal™ Lustre Overlamine 3645

Description

3M™ Scotchcal™ Lustre transparent Overlamine 3645 when laminated to 3M™ Controltac™ Plus Graphic Film Series 162 or 3M™ Controltac™ Plus Graphic Film IJ162-10 or 3M™ Controltac™ Plus Graphic Film RG162-10 is designed for making durable, removable graphics for floors

Advantages

- Scuff resistant protection
- Outstanding resistance to dirt and other environmental factors and wear from high foot traffic.
- Graphics for floors made with these films can be used on a variety of sealed, smooth floor surfaces including waxed vinyl, sealed concrete, marble, terrazzo, ceramic, and finished wood floors.
- Warranted for 6 months – 1 year (see Warranty section)

Applications and End Uses

Scotchcal lustre overlamine 3645 when laminated to Controltac Plus graphic film 162 or Controltac Plus graphic film IJ/RG162-10 is designed for making durable, removable graphics for floors. The following types of graphics are warranted:

- Interior floor graphics that are screen or piezo ink jet printed using 3M inks and laminated with overlamine 3645

Limitations of End Uses

We do not normally warrant other applications, but please contact us to discuss your needs or let us suggest other 3M products.

Specifically, we do not warrant this film for the following:

- Graphics used for purposes other than floor graphics
- Graphics regularly subjected to gasoline vapours or spills
- Exterior applications

Product Line

Please contact the 3M Sales Office for stock availability and lead times.

Product Number	Colour / Pattern
SC162-10 IJ 162-10 RG162-10	White
162-114	Transparent

Main Characteristics

Property	Description
Film Type	Calendared film
Film Opacity	Transparent
Adhesive type	Permanent, pressure sensitive
Adhesive colour	Clear
Thickness (film plus adhesive)	300 –350micron (0.3 to 0.350mm)
Liner	78 pound, bleached kraft paper
Suitable application surface	Flat surfaces
Suitable application substrates	3M™ Controltac™ Plus Graphic Film Series 162 & 3M™ Controltac™ Plus Graphic Film IJ/RG162-10
Application temperature range*	10°C to 38°C

**For applications nearing the minimum temperature range, please contact your local technical service representative to confirm suitability of application*

Chemical and Physical Properties

Values given are typical and are not for use in specifications. If a custom specification is desired, a request should be submitted through your sales representative. The data given below is for unprinted film

Property	Metric Units
Tensile strength (minimum)	2.0kg/cm
Dimensional stability	0.4mm
Lamination temperature range	10° to 38°C



FLOOR COATING AND FINISHING
MATERIAL CLASSIFIED BY
UNDERWRITERS LABORATORIES INC.® AS
TO SLIP RESISTANCE ONLY
4R14

Skid Resistance

Overlamine film 3645 has been tested following the principles of BS 7976-2:2002 results are shown

Test Method	Results	
	Dry Surface Skid reading	Wet Surface Skid reading
BS 7976-2:2002		
TRRL/4S slider	118	25
4S type slider	77	33

Flammability

3M™ Scotchcal™ Lustre Overlamine 3645 laminated to 3M™ Controltac™ Plus Graphic Film Series 162 or 3M™ Controltac™ Plus Graphic Film IJ/RG162-10 has been tested to ASTM E 648-94a, “Standard US Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.” The results show that the composite meets the requirement of the National Fire Protection Association, Class I Interior Floor Finish as defined in the NFPA 101, “Life Safety Code.”

Warranty

Only a Scotchprint® Graphics Authorised Manufacturer or 3M™ MCS™ Qualified Manufacturer can produce 3M™ MCS™ Warranted Graphics. The warranty period is based on field experience and exposure tests. When the graphics are processed and used according to the 3M recommendations, they should have the performance life shown in the table below. The actual performance depends on the:

- Correct combination of film and ink
- Ink formulation
- Drying methods
- Selection and preparation of the substrate
- Application methods
- Exposure conditions
- Cleaning methods

When film 162/RG/IJ162-10 is laminated with overlamine 3645 in accordance with 3M recommended procedures, the following performance may be expected. The performance statements are based upon foot traffic experience in the field. Graphics may be damaged by pallets or heavy equipment such as fork-lifts; minor edge chipping is unavoidable. This type of damage is not covered by 3M's warranty. Performance depends upon preparation of the floor before application, the exposure conditions, the maintenance of the graphics and the condition of the floor.

Warranted durability: 12 months – see exception below

Exception: Graphics for floors exposed to heavy foot traffic (more than 1,000 people per day) are warranted for 6 months

Note: for interior use only.

Fabrication

This bulletin does not contain detailed printing, processing or application procedures for the subject products. The appropriate Instruction Bulletin(s) may be obtained by contacting your 3M sales representative or 3M Technical Service.

Premasking/Prespacing

Scotchcal lustre overlamine 3645 does not require a premasking or prespacing tape for application.

Application

Refer to the Instruction Bulletin 5.26 for application and maintenance of 3M graphics for floors. Refer to Instruction Bulletin 5.19 for Lamination for 3M Graphics for Floors.

Maintenance and Cleaning

Use a cleaner designed for high-quality painted surfaces. The cleaner must be wet, non-abrasive, without strong solvents, and have a pH value between 3 and 11 (neither strongly acidic nor strongly alkaline).

Shelf Life

The shelf life of the film is 2 year and should be applied within 2 years of the receipt of film if unprocessed. Processed film should be applied within 1 year of processing and within 2 years of receipt of the film.

Health & Safety

Refer to the package label and the Material Safety Data Sheet for health, safety, and handling information on the products referenced in this bulletin. For 3M products, if necessary, you may contact our Toxicology/Product Responsibility Department on 01344 858000.

Important Notice to Purchaser

The 3M products described in this publication are covered by a 3M warranty and limitation of liability.

3M's warranty provides that if 3M finds that goods are defective in material or workmanship they will be replaced or the price refunded at 3M's option but note that 3M does not accept liability for other direct losses (except for personal injury or death) or consequential losses relating to defective products or from information supplied by 3M.

Purchasers and users of 3M products, and not 3M supplying companies, are always solely responsible for deciding on the suitability of the 3M product for their required or intended use.

Related 3M Literature

Listed below is related 3M Technical Literature which may be of interest:

Subject	Product Bulletin	Instruction Bulletin
3M™ Controltac™ Plus Graphic Film Series 162	162	-
3M™ Controltac™ Plus Graphic Film IJ/RG162-10	IJ/RG162	-
Laminating of 3M graphics for floors	-	5.19
Application and maintenance for 3M graphics for floors	-	5.26
Scoring and cutting	-	4.1

Glossary of Terms

Matched Component System™ or MCS™

The system pursuant to which Finished Graphics are produced by a Graphic Manufacturer using only 3M Products and components and manufactured in accordance with 3M's Product or Instruction Bulletins, 3M Specification Document and using 3M Approved Technologies.

Permanent Adhesive

Films with a permanent adhesive can be difficult to remove and will often require heat and/or chemicals for effective removal.

Technical Assistance

For help on specific questions relating to 3M Commercial Graphics Division Products, contact your local Technical Service Representative.

Commercial Graphics Department
3M United Kingdom PLC
Customer Technical Centre
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Bracknell
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Sales Assistance

For literature, samples and stock availability on 3M Commercial Graphics Division Products, contact your local Sales Office Representative.

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