3M™ Scotchcal™ Matte Overlaminate 3649

Description

3M™ Scotchcal™ Matte Overlaminate 3649 when laminated to 3M™ Scotchcal™ Graphic Film Series 9008 is designed for making short term, removable graphics for floors

Advantages

- Application to 3M™ Scotchcal™ Graphic Film Series 9008 to make interior graphics for floors
- Scuff resistant protection
- Outstanding resistance to dirt and other environmental factors and wear from high foot traffic.
- Short term – 30 days

Applications and End Uses

Scotchcal matte overlaminate 3649 when laminated to Scotchcal graphic film series 9008 is designed for making short term, removable graphics for floors. The following types of graphics are warranted:

- Interior graphics for floors that are screen or electrostatically printed using 3M inks or toners and laminated with overlaminate 3649

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 available and lead times.

Product Number	Colour / Pattern
Kit 9008-10 / 3649	**White**
Kit 9008-114 / 3649	**Transparent**

Main Characteristics

Property	Description
Film Type	Matte, calendered film
Film Opacity	Transparent
Adhesive type	Permanent, pressure sensitive
Adhesive colour	Clear
Liner	90g paper
Suitable application surface	Flat surfaces
Suitable application substrates	3M™ Scotchcal™ Graphic Film Series 9008
Application temperature range*	10°C to 38°C (50° to 100°F)

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

Scotchcal matte overlaminate 3649 provides under dry conditions a skid resistant walking surface for 3M graphics for floors. Skid resistance measurements of dry overlaminate indicate a coefficient of friction of $\mu = 0.76$ (convert to SRV = 67). A value of $\mu > 0.60$ can be understood as "very safe".

Flammability

When laminated to 3M™ Scotchcal™ Graphic Film Series 9008 this construction meets the requirements for flammability class B1 according to DIN 4102

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 Scotchcal graphic film series 9008 is laminated with Scotchcal matte overlaminate 3649 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: 30 days

Not suitable for graphics for floors exposed to heavy foot traffic (more than 1,000 people per day). In this situation we would recommend the use of 3M™ Controltac™ *Plus* Graphic Film Series 162/ 3M™ Controltac™ *Plus* Graphic Film Series 8660 ES laminated with 3M™ Scotchcal™ Lustre Overlaminate 3645/3M™ Scotchcal™ Lustre Overlaminate 8945 ES

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

Film series 9008 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 within21 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™ Scotchcal™ Graphic Film Series 9008	9008	-
3M™ Screen Printing Ink Series 1900	1900	-
3M™ Screen Printing Ink Series 9700UV	9700	-
Scotchprint® Exterior Toner Series 8700/8800 ES	8700/ 8800	-
3M™ Trident Transfer Paper	Trident	-
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
Cain Road
Bracknell
Berkshire RG12 8HT

Tel: 01344 857850
Fax: 01344 857939

Sales Assistance

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

Commercial Graphics Department
3M United Kingdom PLC
3M House,
28 Great Jackson Street,
Manchester,
M15 4PA

Tel: 0161 237 6394
Fax: 0800 378 127

Commercial Graphics Department
3M United Kingdom PLC
3M Centre, Cain Road
Bracknell, Berkshire
RG12 8HT
Tel: 01344 857850
Fax: 01344 857939
e-mail: commgraphics.uk@mmm.com
www.3m.com/uk/graphicsolutions

Commercial Graphics Department
3M United Kingdom PLC
3M House, 28 Great Jackson Street
Manchester M15 4PA
Tel: 0161 237 6394
Free Fax: 0800 378127
e-mail: commgraphics.uk@mmm.com
www.3m.com/uk/graphicsolutions

Commercial Graphics Department
3M Ireland (Dublin)
Adelphi Centre, Dun Laoghhaire
County Dublin, Ireland
Tel: +353 1 280 3278
Fax: +353 1 280 3509
e-mail: commgraphics.uk@mmm.com
www.3m.com/uk/graphicsolutions