

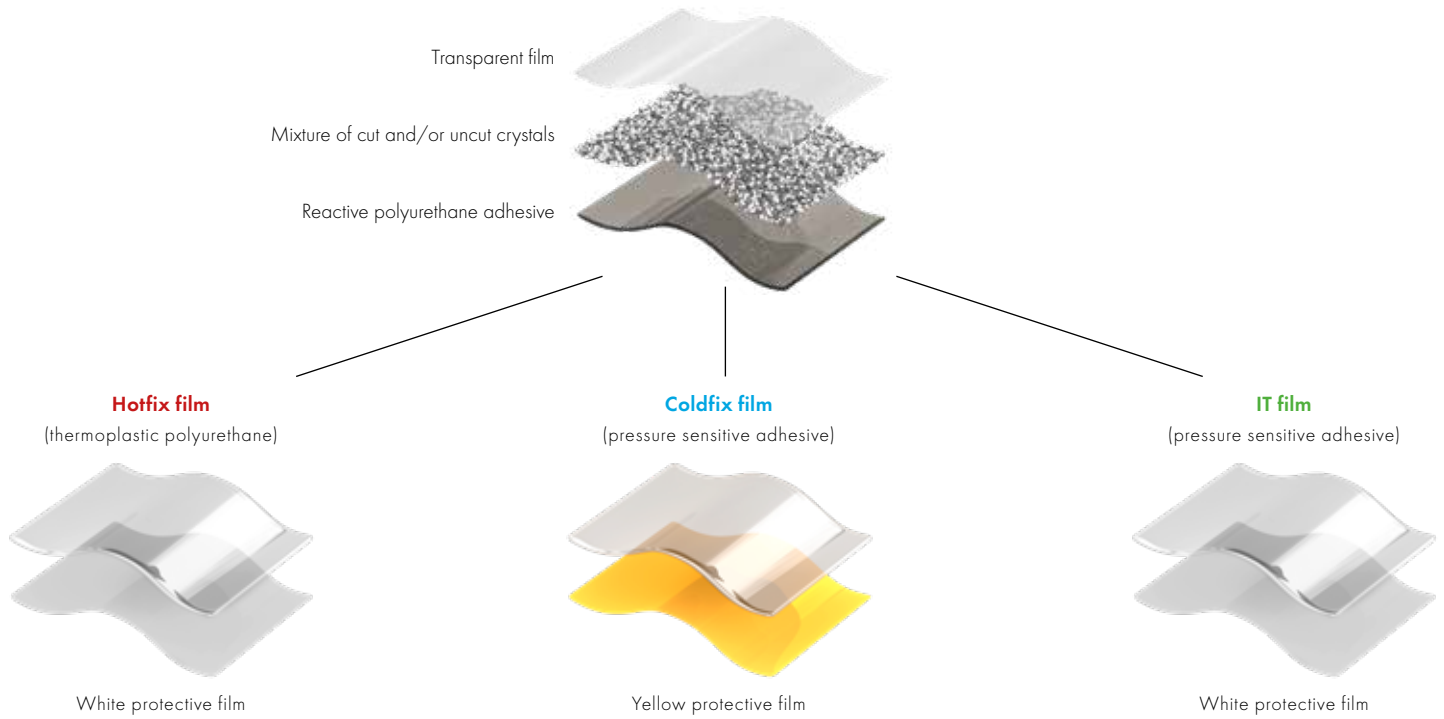
# SYNTHETICS

## AVAILABLE SYNTHETIC PRODUCTS AND FIELDS OF APPLICATION

Synthetics combine elegant crystals from Swarovski with different adhesive systems already applied on the reverse side of the product, each optimized for certain carrier materials and fields of application. They are ideal for use in textiles, interior, jewelry, and DIY, as well as in the accessories segment, and offer

numerous sparkling design possibilities. Due to its outstanding bonding performance, Synthetic **Hotfix** is perfect for a variety of textile applications with high performance requirements. Synthetic **Coldfix**, however, is a product developed especially for materials that are not suitable for Hotfix

applications, such as real and artificial leather and functional fabrics. Synthetic **IT** products, on the other hand, are ready to apply and perfect for solid materials such as paper, metal and glass, allowing easy and fast application.



- Application on carrier materials which are suitable for Hotfix application. (e.g. cotton/polyester blend, denim, Alcantara®,...)

- Heat-sensitive carrier materials (e.g. silk, cashmere, real and artificial leather ...)
- Pressure-sensitive carrier materials (e.g. wool, real and artificial leather ...)
- Textiles with a low level of absorbency (e.g. functional fabrics with water-repellent coating, ...)
- Easy and fast embellishment of finished products

- Solid materials such as glass, metal, paper, etc.

There are certain types of plastics used in materials, textiles, and leather treatments that are **difficult to glue**. The following table contains a selection of materials that can cause problems for any glue application:

<b>Plastic</b>	<b>Examples</b>	<b>Adhesive Qualities</b>
Polyamide (PA)	Degamid, Nylon, Perlon	very difficult
Polyethylene (PE)	Geberit, Hostalen G, Ferrozell	difficult
Polyethylene Terephthalate (PET)	Cardura, Atlas, Eralyt	difficult
Polyoxymethylene (POM)	Delrin, Kematal, Ertacetal	difficult
Polypropylene (PP)	Moplefan, Proplex, Verelite	difficult
Polytetrafluoroethylene (PTFE)	Teflon®, Gafon, Ferrotron	very difficult
SILICONE	Silopren, Contiduct, Corotex	very difficult

To ensure the best possible result, test applications on the intended carrier material are strongly recommended. For information especially regarding material limitations please refer to our Application Manual.

**ARTICLE EXPLANATION – CRYSTAL FABRIC MOTIFS**

**57 389**



<b>C</b>	C010001GSHA
<b>S</b>	~54x43
<b>M</b>	98 PCS <b>80%</b>

<b>57 389</b>	<b>C</b>	<b>S</b>	<b>M</b>	<b>80%</b>
Article number	Color of crystals	Motif size in mm	Minimum order quantity in pieces (PCS)	% of actual size

**ORDERING EXAMPLE & PRODUCT VARIETY EXPLANATION**

<b>57 389</b>	<b>C</b>	<b>010</b>	<b>001 GSHA</b>
Article number	Type of base material	Color of base material	Color of crystals
	Hofix C Coldfix I It version	010 Transparent 012 Black	Please see the respective product matrix for all available reference codes.

CRYSTAL FABRIC MOTIFS

Standard Collection

57 389



C C010-001GSHA  
 S ~54x43  
 M 98 PCS 80%

57 390



C C010-001CHRM  
 S ~41x40  
 M 114 PCS 100%

57 391



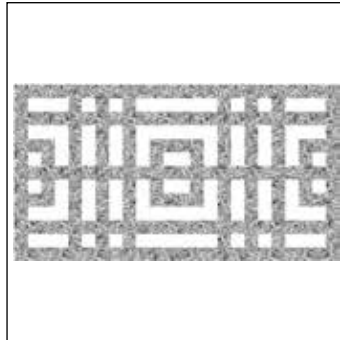
C C012-001HEL  
 S ~50x39  
 M 64 PCS 85%

57 392



C C012-001MOL  
 S ~30x30  
 M 300 PCS 100%

57 393



C C010-001CAL  
 S ~72x39  
 M 76 PCS 60%

57 394



C C012-280HEM  
 S ~53x71  
 M 60 PCS 60%

57 395



C C010-001MOL  
 S ~50x15  
 M 208 PCS 80%

Please note: All motifs are available in certain color/film variations (see color matrix).

**ARTICLE EXPLANATION – CRYSTAL FINE ROCKS MOTIFS**

**74 062**



<b>C</b>	C012-259
<b>S</b>	~75x75
<b>M</b>	16 PCS <b>50%</b>

<b>74 062</b>	<b>C</b>	<b>S</b>	<b>M</b>	<b>80%</b>
Article number	Color of crystals	Motif size in mm	Minimum order quantity in pieces (PCS)	% of actual size

**ORDERING EXAMPLE & PRODUCT VARIETY EXPLANATION**

<b>74 062</b>	<b>C</b>	<b>012</b>	<b>259</b>
Article number	Type of base material	Color of base material	Color of crystals
	Hofix C Coldfix I It version	010 Transparent 012 Black	Please see the relevant product matrix for all available reference codes.

CRYSTAL FINE ROCKS – MOTIFS

Standard Collection

74 059



C 012-259  
 S ~46x29  
 M 60 PCS 90%

74 060



C C012-001MOL  
 S ~46x20  
 M 84 PCS 90%

74 061



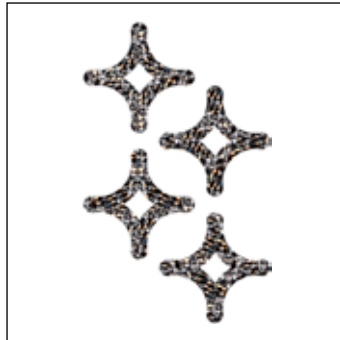
C C010-001CAL  
 S ~38x65  
 M 45 PCS 60%

74 062



C C012-259  
 S ~75x75  
 M 16 PCS 50%

74 063



C C010-001MLGLD  
 S ~50x81  
 M 28 PCS 50%

**APPLICATION INSTRUCTION FOR COLDFIX**

**There are two ways of applying Coldfix products depending on material and application field.**

**Cold application (room temperature) -**  
Coldfix product is placed on a suitable carrier material and pressed down using a rubber roller. Final adhesive strength is reached after 72 hours.

**Application using a heat press (90 °C/195 °F) -** Coldfix is applied from the reverse side using a heat press. Final adhesive strength is reached after 12 hours.

CARRIER MATERIAL DESCRIPTION	ACHIEVABLE PEEL ADHESION*	
	Cold application (room temperature) Final adhesive strength reached after 72h	Application using a heat press (90 °C/195 °F) Final adhesive strength reached after 12h
Tamurakoma N2012 col23 40g/m <sup>2</sup>	3-4 N/cm	3-4 N/cm
Gabardine TC black 210g/m <sup>2</sup> , 65% polyester, 35% cotton	3-4 N/cm	6-7 N/cm
Lycra GGAQ black 120g/m <sup>2</sup> , 73% polyamide, 27% elastane	8-9 N/cm	9-10 N/cm
Alcantara regular 5015 black 230 g/m <sup>2</sup> , 68% polyester, 32% polyurethane	3-4 N/cm	8-9 N/cm
Grain leather, black	5-6 N/cm	6-7 N/cm
Artificial leather black, 100% polyurethane, 315 g/m <sup>2</sup>	4-5 N/cm	4-5 N/cm

\* Tested following DIN 1939

Please note that achievable peel adhesion and bonding performance depend entirely on the characteristics of the carrier material used; it should be remembered that a gluing connection is only as good as the carrier material surface allows. Any oral, written, or test-based advice

that Swarovski provides regarding techniques for the application of its products are recommendations based on Swarovski's current knowledge and the information provided by its suppliers. **Such advice does not discharge customers from carrying out their own**

**tests on techniques they propose to use, and the suitability of these techniques for the intended application.** The application, use and processing of these techniques and products are solely the user's responsibility.

For detailed application information, please refer to the Application Manual and our business website [SWAROVSKI-PROFESSIONAL.COM](http://SWAROVSKI-PROFESSIONAL.COM), or contact your Swarovski sales office.

## APPLICATION INSTRUCTION FOR COLDFIX

### Cold application (room temperature)



- 1** Before application, press the motif onto the transparent film.



- 2** Peel off the yellow protective film at an acute angle.



- 3** Place the motif on the carrier material and press down firmly for around 10 seconds with a rubber roller.



- 4** Carefully remove the transparent film at an acute angle.



- 5** After removing the transparent film press down a last time firmly on the motif using a rubber roller. The application is now finished.

Final adhesive strength is reached after 72 hours.



**Application using a heat press (90°C/195°F)**



**1** Before application, press the motif onto the transparent film.



**2** Peel off the yellow protective film at an acute angle.



**3** Position the motif in the location desired.



**4** Place the carrier material with the motifs facing down in a heat press.



**5** Use a Teflon® foil to protect the heat press and apply the motif with 5 seconds, 90 °C (195 °F) and medium pressure!\*



**6** After the application is finished use a pressing cloth or a rubber roller to apply additional pressure to the product.



**7** Once the product is at least hand warm the transparent film can be removed at an acute angle. The application is now finished.

Final adhesive strength is reached after 12 hours

\* The application time depends primarily on the thickness of the carrier material used and should be tested by the customer.

**Additional Application advice:**

It is possible to move or use the final product carefully right after the application, as long as it is not exposed to any mechanical or chemical stress until the final adhesive strength is achieved. The time until the

final adhesive strength is achieved varies depending on the application method (72 or 12 hours). Please note, that any washing or quality assurance should take place after this period.

**CARE INSTRUCTIONS**

Turn inside out and use mild laundry detergent (wash by hand, max. temp. 30 °C, very mild process).



Do not use chlorine bleach!



Do not tumble dry!



Do not iron!



The textile will withstand gentle professional wet cleaning. Turn inside out.

To protect the crystals as much as possible, the use of a soft wash bag is recommended.