

## Technical Information

**Subject:** Effects - Hesse-Icecrack Effect lacquer

**Required products:** Hesse PUR Isolating Filler DP 492-9343  
Hesse PUR Colour lacquer DB 555-colour tone  
Hesse Icecrack Effect lacquer ZD 3993  
Hesse Wiping stains of the desired effect  
Hesse Brilliant lacquer DU 429-1 or  
Hesse PUR Multicoat lacquer DE 55x (degree of gloss)

Attention! Please consider the exact hardener- and thinner quantities in the following information.

**Description/Features:** The Icecrack effect is reminiscent of cracking ice. The formation of the cracks can be especially emphasized by subsequent application of coloured wiping stain.

**Field of application:** Eccentric, creative accents for surfaces in interior sector, e.g. office furniture, tables, hotel fittings etc.

### Application example:

**Step 1:** Well sanding of priming foil, foiled chipboard or MDF-surface  
1x base coating with 150-200 g/m<sup>2</sup> Hesse PUR Isolating filler DP 492-9343  
10:1 with Hesse PUR Hardener DR 471, diluted with 10% Hesse PUR Thinner DV 490  
Drying: at least for 16h at 20°C  
Sanding: grain 280-320  
1x application of 80-200 g/m<sup>2</sup> in the base colour with Hesse PUR Colour lacquer DB 555-ct  
MR 10:1 with Hesse PUR Hardener DR 470 diluted with 10% Hesse PUR Thinner DV 490.  
The higher the application quantity and the shorter the interim drying time, the larger will be the developed cracks  
Drying: 2-5 hours at 20°C  
No interim sanding

**Step 2:**

1x application of 80-200 g/m<sup>2</sup>

Hesse Icecrack Effect lacquer ZD 3993

MR 1:1 with Hesse PUR Hardener DR 4032

The formation of the cracks develops during the hardening process and is depending on the film thickness of the effect agent (the thinner the coat, the finer are the cracks)

Drying: at least for 16h at 20°C

After drying, the cracks can be accentuated with Hesse Hydro Wiping stain TW 4130-ct or e.g. with Hesse Wiping stain TD 4215-9957 (gold) or -99573 (silver).

Drying: 2-4 hours; the surfaces must be stored free, so that the solvents can evaporate!

**Step 3:**

1x final coating with 100-150 g/m<sup>2</sup> Hesse PUR Multicoat lacquer DE 55x (degree of gloss)

MR 10:1 with Hesse PUR Hardener DR 470

Drying: at least for 16 h at 20°C

**or**

2x within an interval of 10-60 min with 100-120 g/m<sup>2</sup>

Hesse PUR Brilliant lacquer DU 429-1

MR 2:1 with Hesse PUR Hardener DR 4078, diluted with 20% Hesse PUR Retarder DV 4935

If required, the surface can be polished to high gloss after 1 day of drying already.

**Information to application and safety:**

Please see actual technical data sheets and safety data sheets of the listed products!

**Special hints:**

The indicated drying time of Hesse PUR Colour lacquer DB 555-colour must chosen so, that the desired effect is reached (the longer the drying time, the finer are the crackings).

The effect develops during the hardening process of the Hesse Icecrack effect lacquer ZD 3993 and depends on the application amount (the lower the application amount, the finer are the cracks).

For bigger sized surfaces, the addition of 5% Hesse Retarder DV 499 is required.

It is obligatory, that the Icecrack surface must be finished with suitable PUR Multicoat lacquers or Top coats e.g.: DE 55x (degree of gloss) or DU 429-1, in order to avoid embrittlement and adhesion problems.

**Attention:**

**Hesse Icecrack Effect ZD 3993 is not absolutely lightfast, therefore not recommended for pastel colours.**

PUR-lacquers should not be applied and dried below material- and room temperatures of 18°C. In order to avoid adhesion problems, PUR-coated surfaces should be directly sanded before top coating; sanded surfaces should be finished immediately.

The final hardness of the coating is reached after one week at proper storage (at least 20°C).

The hardened coatings fulfil the requirements of DIN 68861-1B (furniture surfaces – behaviour at chemical strain), the DIN EN 71-3 (safety of toys) as well as the former DIN 53160 (test for saliva and sweat resistance) and they are free from Formaldehyde.

Please make a test coating under practical conditions.

**Hint**

Above mentioned information is of advising character, the data are based on our best knowledge and careful examinations according to the current level of technology. A legal binding cannot be concluded from them. Furthermore we refer to our general contract conditions.

Safety data sheet according to 91/155/EWG is available on request.