
Effects: cracked ice effect

Products required:

- PU Isolating filler DP 491-9343
- UNA-COLOR DB 555-(colour tone)
- Icecrack ZD 3993
- Wiping stains in the desired colour tone
- PU Acrylic Brillant lacquer DU 429-1 or
- UNA-PUR DE 55x(gloss level)

Warning: Please observe the precise addition of hardeners and thinners in the information below.

Description/features:

The surface finish of the cracked ice effect is actually reminiscent of breaking ice. The cracks formed can be particularly emphasised by subsequently applying a coloured wiping stain.

Areas of use:

Unusual, creative accents for surfaces in interiors, e.g. office furniture, tables, hotel facilities, etc.

Sample process:

Step 1:

- Sand down priming foil, laminated chipboard or MDF surfaces well
- Prime with one coat of 150 - 200 g/m² PU Isolating filler DP 491-9343, mixing ratio (by volume) 4 : 1 with PU Hardener DR 405 thinned with 10 % PU Thinner DV 490
- Dry for at least 16 hours at 20 °C
- Sanding: grain 280 - 320
- Apply one coat of 80 - 200 g/m² UNA-COLOR DB 555-(colour tone) in the base colour tone mixing ratio 10 : 1 with PU Hardener DR 470 thinned with 10 % PU Thinner DV 490
The higher the application quantity and the shorter the intermediate drying time of the coloured lacquer before top coating, the bigger the cracks which form.
- Dry for 2 - 5 hours at 20 °C
- No intermediate sanding

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Step 2:

- Apply one coat of 80 - 200 g/m² cracked ice effect lacquer ZD 3993 mixing ratio 1 : 1 with PU Hardener DR 4032
Formation of cracks occurs during the hardening process and is dependent on the coat thickness of the effect coat (the thinner the coat, the finer the cracks).
- Dry for at least 16 hours at 20 °C
- After drying, the cracks in the lacquer can be made to stand out in a different colour with HYDRO Wiping stain TW 4130-(colour tone) or e.g. with Wiping stain TD 4215-9957 (gold) or -99573 (silver).
- Drying: 2 - 4 hours; surfaces must be stored in the open air so that solvents cannot accumulate in the air.

Step 3:

- Apply one finishing coat of 100 - 150 g/m² UNA-PUR DE 55x(gloss level) mixing ratio 10 : 1 with PU Hardener DR 470
- Dry for at least 16 hours at 20 °C
- or
apply two finishing coats of 100 - 120 g/m² DU 429-1 PU Acrylic Brillant lacquer, leaving 10 - 60 minutes between coats
mixing ratio 2 : 1 with PU Hardener DR 4078
thinned with 20 % PU Thinner DV 4935

If required, it can be polished to a high gloss after just one day of complete hardening.

Information on use and safety:

Please also observe the latest technical information and safety data sheets for the individual products listed.

Special instructions:

- The drying time of the UNA-COLOR DB 555-(colour tone) given in the example must be chosen such that the desired effect development or crack formation is achieved (the longer the drying time, the finer the cracks).
- The development of the effect occurs during hardening of the lacquer Icecrack ZD 3993 and is dependent on the application quantity (the thinner, the finer the cracks).
- In the case of larger surfaces, the addition of 5 % retarder DV 499 is necessary.
- It is imperative that the cracked ice surface is fixed with suitable PU coating or finishing lacquers such as DE 55x(gloss level) or DU 429-1 in order to prevent brittleness and adhesion problems.
- Warning:
Hesse Icecrack ZD 3993 is only light-fast to a limited extent, and it is therefore recommended that the use of pastel tones is avoided.

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- Polyurethane lacquers should not be used or dried at product or room temperatures below 18 °C.
- In order to avoid adhesion problems, please freshly sand polyurethane lacquered surfaces before applying the next coating and apply lacquer to the sanded surfaces as soon as possible.
- Complete hardening of the coating is achieved after one week in correct storage conditions (at least 20 °C room temperature).
- Please apply a test coat under real conditions.

Note:

This information is for advice and is based on the best knowledge available and careful research in line with the current state of the art. This information cannot be held as legally binding. We also refer you to our terms and conditions of business.

The Material Safety Data Sheet according to the regulation (EC) No. 1907/2006 is available.