

Technical Data Sheet

V-Primer 4435

Product Description

A one component polyurethane based primer and clear sealing lacquer which contains solvent.

V-Primer 4435 is suitable as adhesive primer, when subsequently coated with other polyurethane based products.

It can also be used as a sealer for dusty, cement surfaces. The cured material resists hot water, soaps, detergents, salt solutions and many other chemicals.

Typical specification

| | | |
|----------------------------------|--|-----------|
| Appearance | DIN 52002 | brown |
| Density @ 20°C g/cm ³ | DIN 53217 | 0.97-1.07 |
| Viscosity secs @ 20°C | DIN cup, 4mm Nozzle | 16-18 |
| Isocyanate content % | DIN 16945 | 6-8 |
| Flash point °C | DIN 52758 | 24 |
| Curing Profile | The primer dries by solvent evaporation and reaction with atmospheric moisture. NB: Curing will be faster at higher temperatures/humidities and slower at lower temperatures/humidities | |

Typical properties of the cured primer

| | | |
|--|------------------------------------|------|
| Pendulum hardness (According to Albert Konig) | 180 second after 10 days curing. | |
| Abrasion resistance | Taber abrader 1000 revs @ 100°C | 9 mg |
| Temperature resistance | up to 100°C | |

The film turns yellow under sun light, the other protective properties remain unchanged however.

Chemical resistance

The test specimens, consisting of 2 coats of wash primer and 3 coats of V-Primer 4435, were cured for 10 days before testing.

- + no change
- + - slight change
- failed

| Test material | Test period | Result |
|-------------------------|-------------|--------|
| Distilled water | 6 months | + |
| Tap water | 6 months | + |
| Sea water | 6 months | + |
| Sulphuric acid 50% | 6 months | + |
| Sulphuric acid 10% | 6 months | + |
| Hydrochloric acid Conc. | 1 day | - |
| Hydrochloric acid 10% | 6 months | + |
| Nitric acid Conc. | 1 day | - |
| Nitric acid 10% | 6 months | + |
| Acetic acid 10% | 15 days | + - |
| Formic acid 10% | 6 months | + |
| Lactic acid 10% | 6 months | + |
| Citric acid 10% | 6 months | + |
| Tannic acid | 6 months | + |
| Linoleic acid | 6 months | + |
| Soda solution 20% | 6 months | + |
| Petrol | 6 months | + |
| Super petrol | 6 months | + |
| Potassium hydroxide 50% | 6 months | + |
| Potassium hydroxide 10% | 6 months | + |
| Ammonia 10% | 10 days | + - |
| Hydrogen peroxide 10% | 10 days | + - |
| Cresol | 5 days | + - |
| Heating oil | 6 months | + |
| Test benzine | 6 months | + |
| Xylene | 6 months | + |
| Toluene | 6 months | + |
| Ethyleglycolacetate | 10 days | + - |
| Methylene chloride | 1 day | - |
| Acetone | 10 days | + - |
| Ethyl alcohol | 6 months | + |

Surface preparation

The air and ground temperature must be above 10°C, and the substrate must be clean, dry and free from oil and grease, before commencing work. Aluminium or zinc surfaces must be treated with a wash primer.

Processing

Application is by airless spray, low pressure spray or roller. For spraying, 10-20% of V-Thinner "A" can be used.

For surfaces that are not very porous, V-Primer 4435 can be diluted with 30-50% solvent, in order to penetrate the surface. After 4-5 hours, a second coating can be applied, with the solvent quantity reduced to 10-20%.

When used as a primer, only sufficient surface should be primed, that can be over coated in the same day.

NOTE: V-Primer 4435, loses its efficiency if not coated within 12 hour, especially under rainy or dewy conditions.

Material consuption

100g/m² on non- porous and 150-200 g/m² on porous surfaces.

Precautions

Please refer to the material safety data sheet and the handling and storage data sheet before using.

Clean up

Equipment may be cleaned with our special V-Thinner "A" before the material cures.

Packing

17kg net cans and 200kg net drums

Storage

The material must be protected against humidity and stored above 5°C. the ideal storage temperature is 15-25°C.

Shelf life

At 15-25°C the material can be stored for at least six months, in the original unopened drums, opened drums should be used up quickly.

NOTICE:

The information and data contained here in are believed to be correct and are given in good faith. However, no liability is accepted therefore and no warranty or freedom from and patent is to be inferred.