

CoolBarrier

HSR Finish 2K



**Two Component High
Build Aliphatic Acrylic
Polyurethane Top Coat**



Cool Barrier 2k

DESCRIPTION: Two component High Solar Reflective aliphatic acrylic polyurethane Top Coat.

Principal Characteristics

- Easy application by roller and airless spray
- Unlimited recoatable
- Excellent resistance to atmospheric exposure conditions
- Non-chalking, non-yellowing
- Tough and abrasion resistant
- Resistant to splash of mineral and vegetable oils, paraffins, aliphatic petroleum products and mild chemicals
- Can be recoated even after long atmospheric exposure
- Superior Solar Reflectance: SR value: 0,91

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

For atmospheric exposure conditions:

- Previous coat; (epoxy or polyurethane) dry and free from any contamination and sufficiently roughened if necessary
- During application and curing a substrate temperature down to 0°C is acceptable provided the substrate is dry and free from ice
- Substrate temperature should be at least 3°C above dew point
- Maximum relative humidity during application and curing is 80%
- Premature exposure to early condensation and rain may cause gloss change

ADDITIONAL DATA

Curing table for dft up to 75 µm and Pot Life

Substrate temperature	Pot Life	Touch dry	Dry to handle	Full cure
10°C	6 hours	6 hours	10 hours	12 days
20°C	4 hours	4 hours	6 hours	8 days
30°C	3 hours	3 hours	5 hours	6 days
40°C	1 hour	1 hour	3 hours	3 days

ADDITIONAL NOTE

Before use mix properly the two components using a stirrer for at least 2 minutes. Allow the mixed product to "calm down" for 2-3 minutes before applying. Before any use, please consult the MSDS file of the product for any precaution and/or safety

Basic Data at 20°C

Available Colours: WHITE.

Mass density: 1,4 g/cm³

Volume solids: 60 ± 2%

VOC (supplied): max. 287 g/l (Directive 1999/13/EC)

Recommended dry film thickness: 75-100 µm depending on system

Overcoating interval: min. 6 hours at 20°C
Maximum interval: Unlimited

Theoretical spreading rate: 7 m²/l for 75 µm, 5 m²/l for 100 µm

Touch dry after: 1.5 hour

Full cure after: 7 days

Shelf life (cool and dry place): at least 6 months

Flash point: base 26°C, hardener 42°C

INSTRUCTIONS FOR USE

- **Mixing ratio by weight:** base to hardener 100 : 20, the temperature of the mixed base and hardener should preferably be above 10°C, otherwise extra solvent may be required to obtain application viscosity. Too much solvent results in reduced sag resistance and slower cure. Thinner should be added after mixing the components.
- **Induction time:** None
- **Pot life:** 4 hours at 20°C
- **Adequate ventilation must be maintained during application and curing.**
- **Must be protected from freezing at all times during storage**

AIRLESS SPRAY

Recommended thinner: EP Solvent 20

Volume of thinner: 0 - 5%, depending on required thickness and application conditions

Nozzle orifice: approx. 0,46- 0.53 mm (=0.018 in - 0.021 in)

Nozzle pressure: 15 MPa (= approx. 150 bar; 2130 p.s.i.)

BRUSH/ROLLER

Recommended thinner: EP Solvent 20

Volume of thinner: 0 - 5%,

CLEANING SOLVENT

Recommended thinner: EP Solvent 20 and Acetone: