

Technical Data Sheet.



Permasolid® HS Hardener

3307 extra fast

3309 fast

3310

3312 slow

3315 extra slow

Permasolid® HS hardeners are High Solid-hardeners specially developed for some of our Permasolid® HS surfacers and clear coats.

Their high solids content allows for economical and eco-friendly application.

Having five versions means that all painting conditions can be optimally catered for and highly reliable application is guaranteed.

For professional use only!

VR Technical Data Sheet No. EN / 3307_3315 / 01

Application.

Possible base materials:

Permasolid® HS Express Surfacer 5250
Permasolid® HS Premium Surfacer 5310
Permasolid® HS Wet-on-Wet Surfacer surfacers 5330
Permasolid® HS SpectroFlex Surfacer 5400
Permasolid® HS Vario Surfacer 8590

Permasolid® HS Clear Coat 8030
Permasolid® HS Clear Coat 8035
Permacron® MS Brilliant Clear Coat 8040
Permacron® MS VarioPlus Clear Coat 8050

Field of application:

- 1. Permasolid® HS Hardener 3307 extra fast**
Suitable for spot repairs and partial refinishes at low temperatures.
- 2. Permasolid® HS Hardener 3309 fast**
Suitable for partial refinishes at low temperatures and low volumes of outgoing air in the spray booth.
- 3. Permasolid® HS Hardener 3310**
Suitable for full and partial refinishes at normal temperatures.
- 4. Permasolid® HS Hardener 3312 slow**
Suitable for full and partial refinishes, even at high temperatures.
- 5. Permasolid® HS Hardener 3315 extra slow**
Suitable for full and partial refinishes, even at very high temperatures. Finishes applied using this hardener are characterised by excellent gloss and flow.

Mixing ratio:



See Technical Data Sheet of the respective base material.

| Selection of hardeners | HS Hardener 3307 extra fast | HS Hardener 3309 fast |
|--|-----------------------------|-----------------------|
| Full or partial refinish (large objects) | -- | - |
| Partial refinish (spot repairs) | ++ | ++ |
| High temperature above +25°C | -- | -- |
| Very high temperature +30°C to +35°C | -- | -- |
| Normal temperature +20°C to +25°C | -- | - |
| Low temperature +15°C to +20°C | ++ | + |
| Low baking | + | + |
| Air drying | ++ | ++ |

| Selection of hardeners | HS Hardener 3310 | HS Hardener 3312 slow | HS Hardener 3315 extra slow |
|--|------------------|-----------------------|-----------------------------|
| Full or partial refinish (large objects) | + | ++ | ++ |
| Partial refinish (spot repairs) | + | + | -- |
| High temperature above +25°C | + | + | ++ |
| Very high temperature +30°C to +35°C | - | + | ++ |
| Normal temperature +20°C to +25°C | ++ | ++ | + |
| Low temperature +15°C to +20°C | - | - | -- |
| Low baking | ++ | ++ | ++ |
| Air drying | ++ | + | + |

++ ideal

+ suitable

- not particularly suitable

-- unsuitable

Note on safety:

This product is classified according to regulation (EC) 1272/2008 (CLP).
Please consult the Safety Data Sheet.
It is strongly recommended to use appropriate personal protection equipment during application.

Data.

Flash point:

HS Hardener 3307

below +21°C

Flash point:

HS Hardener 3309 - 3315

above +23°C

Storage.

Storage conditions:



Do not store in damp conditions.



After use, replace container lid immediately, ensuring an airtight seal.

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