

Processing note

CP 61 Coating

Vers. 10.3.2020

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1. Product description

2-component solvent-free mineral based coating which hardens hydraulically. The combination of selected natural minerals plus a high-grade reactive fluid component produces the ready-to-use mixture.

The outstanding product properties include:

- very good application on stable, rusty steel and all mineral surfaces
- no rust infiltration of the coating
- high-alkaline medium ensures active long-term corrosion protection
- temperature stability of -40°C to +180°C in the humid environment
- high resistance to acids and bases from pH 3,5 to pH 14
- high adhesion force to steel that does not diminish even with multiple load changes
- the expansion coefficient of the material is the same as that of steel
- vapour permeability
- resistance against demineralised water
- neutral regarding drinking water
- extremely low shrinkage of the material
- fire protection level A2
- environmentally-friendly, solvent-free, low-pollution – not a hazardous material!

2. Ground preparation

When viewing the steel surface without magnification, it must be free of oil, grease, paint, coatings and any loose separating substances. Rolling skin and mill scale on new steel surfaces and pipelines must be removed by sandblasting. Stable rust can remain on the steel. Degree of purity according to ISO 8501-1 Sa1. A small amount of residual humidity (no free water) can be tolerated.

3. Cleaning

Mechanical brushing, maximum water pressure or blasting with solid abrasives..

4. Mixing process

Shake the liquid component contained in the delivery container well, add it to the powder component and mix both components without lumps (use a paddle mixer without fail). Allow the mixture to rest for at least 30 minutes, then mix well again before use.

For compulsory mixers with continuous operation, the continuous mixing time is > 30 minutes.

The mixing area must be protected from direct sunlight.

5. Processing time

The processing time for the ready-mix is about 2 hours at an ambient temperature of 20°C. At low temperatures the processing time is longer, at higher temperatures it is shorter.

6. Processing

Brush or roller

Airless spraying, spraying pressure ≥ 100 bar (Before spraying, the finished mixture must be sieved through a vibrating sieve < 0.5 mm mesh size).

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7. Processing mixture

The processing mixture is a viscous material that can be painted, rolled or applied by airless spraying.

8. Practical advice

In order to ensure reliable long-term corrosion protection, a material layer thickness of > 1 mm is required.

Practice consumption Airless spraying:

Layer thickness 1 mm - 1.8 kg/m² material consumption. When spraying with airless, up to 25 % more material can be used due to irregular application.

The material thickness of 1 mm to be applied is applied in two consecutive spraying passes with short waiting times. At low temperatures (5 - 10 C°) the waiting time between spraying cycles can be up to 24 hours.

9. Commissioning

Surface resistant and walkable after 12 hours at an ambient temperature of 20°C. At low temperature the time is extended up to 24 hours. In an environment polluted with harmful substances (air, water), commissioning can be carried out in 7 days at the earliest. By treating with superheated steam > 100°C, immediate commissioning is possible for vessels, chambers and pipelines.

10. Layer thickness measurement

The layer thicknesses are to be checked using suitable measuring instruments.

11. Surface condition

Smooth to orange-peel appearance (when sprayed).

12. Delivery components

Powder component: Mineral component (grey)

Liquid component: aqueous reactive polymer dispersion

13. Processing temperature

not below +5°C

14. Equipment cleaning

With water

15. Material density

wet 1.8 kg = 1 litre ready-mix

16. Storage

12 months, store dry, not below 0°C and not above +30°C

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17. Danger and safety instructions

Not a transport hazard. Irritating to eyes and skin. Keep locked up and out of the reach of children. In case of contact with eyes, rinse thoroughly with water. Remove soiled, soaked clothing from the body. Wear suitable protective gloves and eye/face protection. Material can be disposed of in hardened condition in a domestic waste dump.