

CLOGGING HOPPERS, SILOS OR CHUTES

TECHNICAL PROBLEMS

Certain powdery or pasty products tend to adhere to the metal support during transfer, handling or storage operations. They can also be abrasive.

TRADITIONAL SOLUTION

- **Using stainless or mild steel:** not a perfect solution to the problem of clogging. An expensive solution.

- **Lining with glued or riveted Teflon or HDPE panels:**

A fragile lining, and difficult to repair. It won't adhere to the substrate, doesn't remedy the problem of nuts and bolts, and protects against neither corrosion nor abrasion.

SOUPLETHANE TECHNIQUE

SOUPLETHANE has a very low surface tension and excellent non-stick properties. It can be applied to any support: steel, concrete, wood, stainless steel, etc.

Non-stick: for foundry sand, fertiliser, potash salts, cements, powdered detergents, etc.

Anti-abrasion: you can increase the thickness in areas exposed to abrasion and vary the thickness over a system, for example between the top and bottom of a hopper (e.g. 1 mm at the top and 5mm at the bottom).

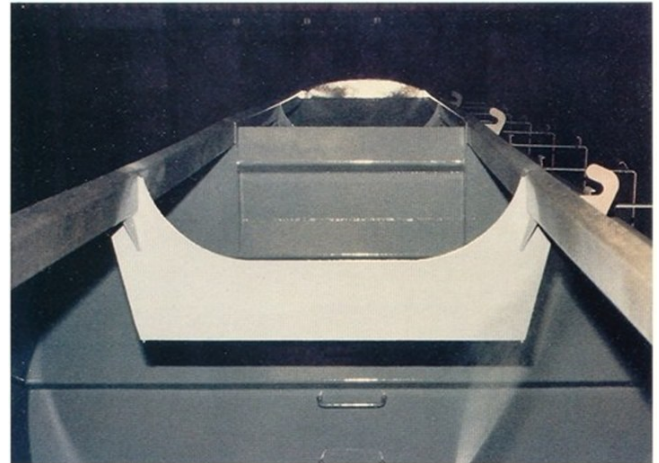
Corrosion-resistant: certain products which tend to clog systems are also corrosive (such as potash salts).

Food products: it can be used for equipment used to handle food products (mixers, silos, chutes, conveyor belts, etc.).

TESTS AND CERTIFICATIONS

Corrosion tests in salt mist: 2 000 hours with no trace of corrosion

- Ice adhesion tests: no adhesion
- Resistance tests for impacts and abrasion: Wheelabrator test, test by CNR.



SPECIFICATION

- prepare the substrate:
 - sand-blasting SA 2,5 (for steel) or grind the concrete.
 - apply the SOUPLETHANE:
 - apply the SOUPLETHANE in a layer from 1 mm to 5 mm thick, depending on the abrasion problems.
- Application using a high-pressure twin-component airless pump.

WORK REFERENCES

- SIMOTRA:
Coating for hopper wagons used to transport potash salts
- RENAULT:
Coating for hoppers used for foundry sand.
- REMAFER:
Inner lining for fertiliser transport wagons.
- CLIMADEF:
Lining for bucket conveyors used to transport bituminous coal.