





Case study Neutralac[®] SLS45

3-10

Neutralization and precipitation of chromium from effluents from a surface treatment plant

Customer Application and Activity

BeL'M, a specialist front door manufacturer with over 30 years experience and 200 models, was looking for a concentrated milk of lime for purifying its effluents and optimizing its operational costs.

Problem to be solved

The effluents from the factory's surface treatment plant at Machecoul (France) were predominantly contaminated with chromium. Lhoist devised an overall approach:

- Ease of implementation
- Simple integration in the existing installations
- Sufficient reaction speed for the installation
- Water savings



Neutralac® SLS45 Solution

From the range of products available, Lhoist proposed the Neutralac[®] SLS45, a ready-to-use liquid reagent. Lhoist's technical assistance team first carried out an audit of the lime installation to check the technical feasibility: concentration, injection device, dosing unit, etc. Lhoist then monitored the injection of the Neutralac[®] SLS45 reagent, an innovative product, patented by Lhoist R&D:

- Low viscosity making dosage and pumping easy
- Easy to put in suspension through temporary stirring
- High concentration of 600g of Ca(OH)₂ per liter
- High reactivity
- No heavy investment required

VIU results

The benefits enjoyed by BeL'M were:

- Safe and immediate substitution of the chemical reagents used
- Water consumption reduced by 125 m³ per year
- 2 fewer preparations per week
- 5 hours of operation per day instead of 8

Conclusion

Lhoist met BeL'M's expectations by:

- Supplying an innovative high quality product
- Providing a solution suited to the existing process without additional investment
- The treatment's performance
- The ease of use

