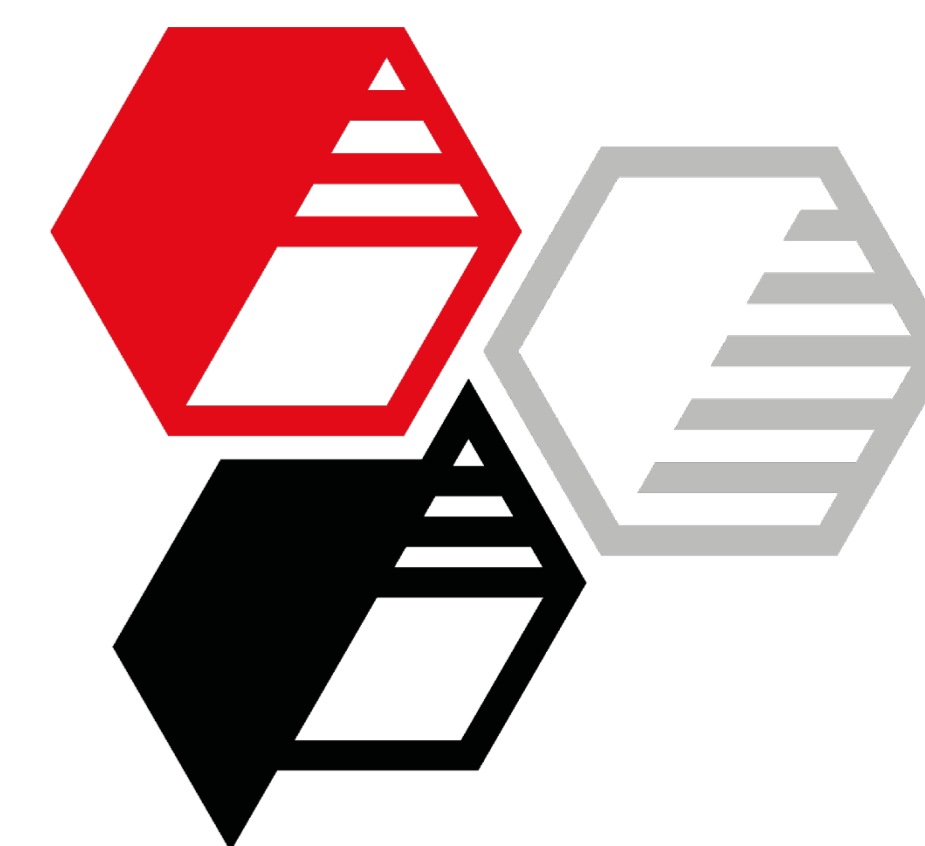


Neuburg Siliceous Earth in water-based corrosion protection alkyd primer white



Objective

Meeting stricter regulatory requirements
without compromising on adhesion or protective performance

Neuburg Siliceous Earth (NSE): Sillitin V 85, Aktisil PF 777

Formulation

| Siccative-free ✓ | | No coalescing agent ✓ | | |
|---|--|----------------------------|--------------|------|
| | Main filler | Talc | NSE | |
| Pigment Preparation | Water demineralized | | 8.00 | |
| | WorléeDisperse 8400 W | | 1.00 | |
| | Rheovis PU 1333 | | 0.45 | |
| | Rheovis PU 1291 | | 0.15 | |
| | WorléeAdd 6410 | | 0.20 | |
| | Kronos 2190 | | 10.10 | |
| | Microdol Super | | 10.40 | |
| | HAR* Talc or Sillitin V 85 | 4.10 | 4.10 | 8.20 |
| | Aktisil PF 777 | | | |
| | Zinc phosphate (corrosion pigment) | 6.60 | 6.60 | |
| Water demineralized | | | 5.00 | |
| <i>Disperse with high shear rate, than add with continuous stirring</i> | | | | |
| Let Down | Water demineralized | | 3.00 | |
| | WorléeSol E 330 W | | 50.00 | |
| | Water demineralized | 5.00 | 5.00 | --- |
| | WorléeAdd 458 (org. corrosion inhibitor) | 1.00 | 1.00 | --- |
| Total | 100.00 | 100.00 | 99.00 | |
| <i>Solids content w/w 53 % PVC 34 %</i> | | <i>* High aspect ratio</i> | | |

Summary

Retained features

- ✓ Storage stability, levelling, drying, hardness, flexibility
- ✓ Perfect adhesion in cross cut test
- ✓ High protection level with very good wet/dry adhesion

Improved features with **Neuburg Siliceous Earth**

- + Talc-free way of primer formulation

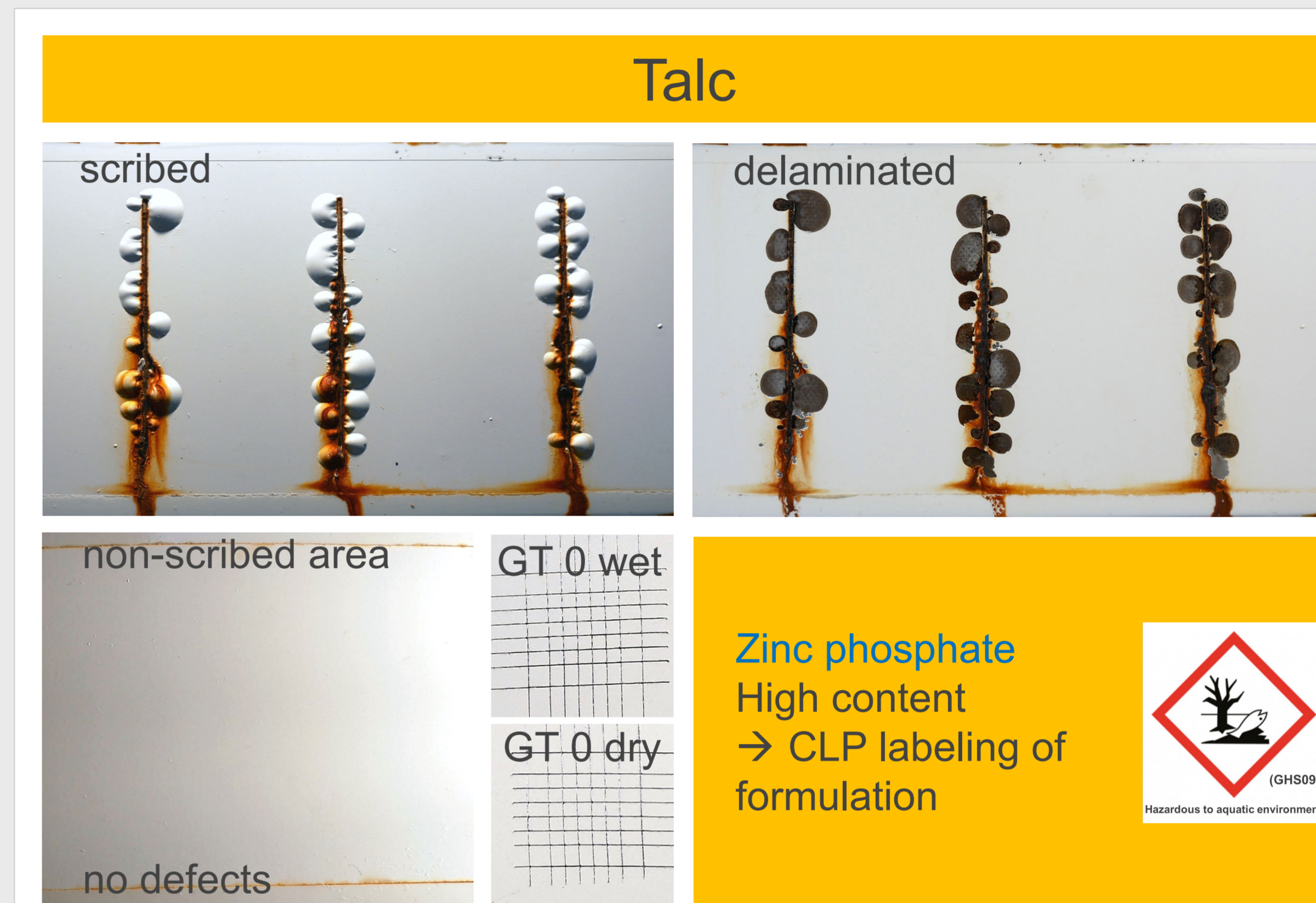
Sillitin V 85 cost-effective filler that further reduces corrosive blistering/delamination effects at scribe damages

Aktisil PF 777 drives innovation for more environmentally friendly and label-free formulations saving corrosion inhibitors and zinc phosphate

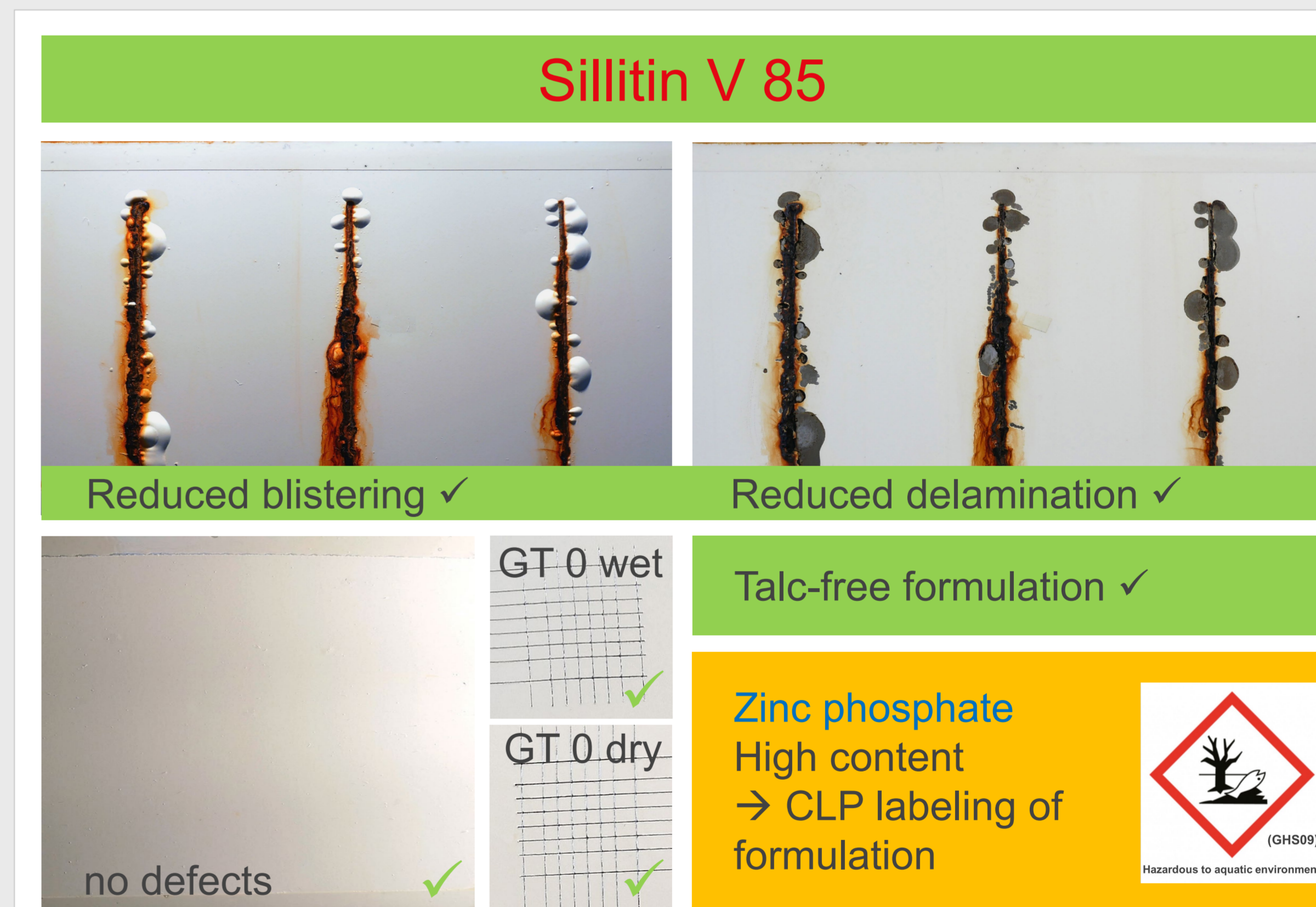
Results

Single-layer 80 µm DFT 24 days drying 23°C / 50 % RH cold rolled steel

360 h Neutral Salt Spray



⇓ Filler replacement



⇓ Filler variation + Corrosion pigment reduction

