

ISO 24131-2:2023-03 (E)

Internal protection by polymeric lining for ductile iron pipes - Requirements and test methods - Part 2: Epoxy lining

| Contents | | Page |
|-----------------------|----------------------------------------------------------------------|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Technical requirements | 3 |
| 4.1 | General | 3 |
| 4.2 | Surface preparation | 3 |
| 4.3 | Lining appearance | 4 |
| 4.4 | Minimum lining thickness | 4 |
| 4.5 | Adhesion (pull off test/cross cut knife test) | 4 |
| 4.6 | Cross linkage (MIBK/Tg) | 4 |
| 4.7 | Non-porosity | 4 |
| 4.8 | Protection of pipe ends | 4 |
| 4.9 | Marking | 5 |
| 4.10 | Repairs | 5 |
| 5 | Performance requirements | 5 |
| 5.1 | General | 5 |
| 5.2 | Materials in contact with water intended for human consumption | 5 |
| 5.3 | Abrasion resistance only for sewage applications | 5 |
| 5.4 | Chemical resistance only for sewage applications | 6 |
| 5.5 | Impact resistance | 6 |
| 5.6 | Indirect impact resistance | 6 |
| 5.7 | Resistance to hot water | 6 |
| 5.8 | Resistance to ovalization | 6 |
| 6 | Test methods | 6 |
| 6.1 | Routine tests | 6 |
| 6.1.1 | Surface preparation | 6 |
| 6.1.2 | Lining appearance | 6 |
| 6.1.3 | Lining thickness | 7 |
| 6.1.4 | Adhesion | 7 |
| 6.1.5 | Cross linkage (MIBK/Tg) | 7 |
| 6.1.6 | Non-porosity | 7 |
| 6.1.7 | Marking | 7 |
| 6.1.8 | Repairs | 7 |
| 6.2 | Performance test | 8 |
| 6.2.1 | Abrasion resistance only for sewage applications | 8 |
| 6.2.2 | Chemical resistance only for sewage applications | 8 |
| 6.2.3 | Impact resistance | 8 |
| 6.2.4 | Indirect impact resistance | 8 |
| 6.2.5 | Resistance to hot water | 8 |
| 6.2.6 | Resistance to ovalization | 8 |
| Annex A (normative) | Quality assurance | 10 |
| Annex B (normative) | Cross cut knife test method | 12 |
| Annex C (informative) | Handling, transportation and storage | 13 |
| Bibliography | | 14 |