In many cases, the main reason for cracking of reinforced concrete is swelling of the reinforcement bar, due to corrosion. Most concrete reinforcement uses carbon steel, which is easily attacked by chlorides, in humid environments. In such cases, stainless steel is the best choice for the reinforcement. Its high strength and high corrosion resistance bring durability, low maintenance costs and safety.

**LOCATION/ENVIRONMENT**
Inside concrete – indoor or outdoor

**PRODUCT**
Rebar

**FABRICATION PROCESS**
Cold rolling for ribbed wire or rebars up to 20 mm diameter and hot rolled rebars for diameter between 20 to 40 mm

**GRADE**
URANUS 35N (23Cr-4Ni-N-Low C)
URANUS 45N (22Cr-5Ni-3Mo-N-Low C)

**SURFACE**
Polished, electropolished

**COMPETING MATERIAL**
Carbon steel rebars with protection system against corrosion

**DATE OF COMPLETION**
2003

**MANUFACTURING COMPANY**
Ugitech and FUMIREX

**MATERIAL SUPPLIER**
Ugitech and FUMIREX

**SOURCE OF INFORMATION**
Ugitech

**REMARKS**
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