



**REINFORCEMENT FOR CONCRETE**

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	