

HYDROSEEDING

The water solutions

The hydroseeding is the cheapest way to make any area and surface green again (escarpments, ski slopes, rubbish dumps, banks, landslides, erosion, earthless and humus lacking soils, green areas, sport courts, on-fire zones, etc...). It can be carried out only with a particular equipment purposefully studied in order that the products and employed substances are held in suspension in the water contained in the tank, allowing their dilution and amalgamation avoiding sediments and/or floatations.

The distribution happens by means of a particular pump able to transmit to the solution a remarkable pressure, necessary for having a throw of several dozens of meters with



an appropriate light gun. The water solution contains a mixture made up by long duration organic fertilizer with microelements, consolidating fixators and solutions and substances that accelerate the germination and the root-taking, activators for the microbiotic flora in sterile grounds, substrate of development having high power of water absorption. The hydroseeding can be executed spraying on the ground a thickness of various centimetres.

The employed products are innocuous to persons and animals, including fish, do not pollute the environment (ground, subsoil, flowing waters, water stratum, etc...), are biodegradable and can be distributed also with air means (helicopter). The quality and the amount of single elements to employ vary and are chosen and determined after an analysis of the places, estimating also the pedoclimatic factor (nature, land, exposure, altitude, etc). The choice and the composition of the mixture of seeds are also fundamental for good results and include seeds of herbaceous, grasses, legumes and if requested arboreal and shrubby essences. The water and the substances in it dissolved pen-



trate in the subsoil from 2 to 80 millimetres of depth, form a reticulated three-dimensional solid grid, which under film shape consolidates and combines land particles.

The products for the hydroseeding vary depending on the places and the types of hydroseeding can be divided as follows: with substrate or peat; with cellulose; with colloidal clay; with mulch; for argillaceous lands; for sandy lands; for high quotas (over 2.500 mt); on reinforced earth, antinoise barriers; with biomats, geonest, geogrids, etc... These materials increase the stability of the

land where this is not stable or is subject to landslides and are fixed to the land with steel ropes, nail, tie-rods. In order to execute these jobs an appropriate machine for hydroseeding is necessary. **VAN DEN BORRE** company manufactures various models of machines for professional hydroseeding from 500 to 7.000 lt., which can be rented. The use is simple since the machine sucks the water and blend it with the desired products.

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