NANOPLANT Höchst GmbH

INSTRUCTION FOR USE
GALAX

EN CE 0653

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COMPOSITION
Calcium oxide, silicon oxide, aluminium oxide, zirconium oxide

PROPERTIES
Ratio of oxides in powder determines its time of hardening. During mixing of powder with distilled water at the ratio of 2.8-3:1 in room temperature (18-23) °C and humidity (50±10) % one get a plastic paste, convenient at work.
Working time of **quick-hardening GALAX** is 2-4 minutes, hardening time -10-15 minutes.
Working time of **longtime hardening GALAX** is 10-12 minutes, hardening time in root canal is from 4 to 24 hours in oral cavity medium.
During hardening, calcium oxide interacting with distilled water, turns into calcium hydroxide, ensuring high alkaline medium (pH 12.8). Then amorphous calcium hydroxide reacts with silicon and aluminium oxides, what forms active silicates, and strengthens cement matrix.
Formed alkaline cement possesses anti-bacterial properties and stimulates processes of apexogenesis (during treatment of teeth with not shaped roots), stops bone resorption, stimulates formation of secondary dentine during caries treatment.
Material possesses high biocompatibility, low solubility (0.8 %) and high mechanical strength (not less than 40 MPa).

INDICATIONS
Dental material **GALAX** is used:
– for retrograde filling of tooth root canals during surgical treatment of parodontitis;
– for filling of apical part of canal with not shaped roots;
– for closing of perforation (bifurcation- and trifurcation) in tooth root canal or cavity during external tooth root resorption;
– as a medical pulp capping for maintenance of its vitality during treatment of deep caries and all reversible forms of pulpitis;
– for direct pulp capping after tooth pulpotomy.

CONTRAINDICATIONS
Drug idiosyncrasy. Do not misuse.

SIDE EFFECTS
As far as all terms of storing, transporting and application are observed, there are no side effects.

METHOD OF USE
Dental material **GALAX** is mixed at room temperature (18-23) ºC and relative humidity (50±10) % on mixing pad within 30-40 seconds, mix 1 doze (0.25 g) of the powder with 2 drops (0.08-0.10 g) of distilled water till receiving of thick plastic mass.
Paste made of **quick-hardening GALAX** should be used within its working time (2-4 minutes), after hardening (in 12-15 minutes) further procedures can be fulfilled.
Paste made of **longtime hardening GALAX** should be used within 10 minutes. If the paste loosed its plasticity, it is possible to add, one time only, some amount of distilled water (less than 1 drop) and mix with moisten in distilled water spatula for extension of material operational time up to 15-17 minutes.
For retrograde filling of tooth root apex provide access to apex (by cutting of mucoperiosteal flap) under local anesthesia. Make root apex resection and form the cavity for retrograde filling using ultrasonic handpiece with special diamond tips. After providing of hemostasis fill the cavity in tooth root with the paste. It is important to replace bone defect with osteoplastic material and fix the flap by suturing.
For perforation treatment insert the paste in defect of washed and dried canal. Seal the paste and check accuracy of applying with X-ray. Block then the rest part of root canal, isolate with luting material and make the restoration of tooth crown.

For sealing of the cavity at tooth root resorption provide an access to resorption area and carry out instrument treatment. Fill resorption area with the paste made of quick-hardening **GALAX** (X-ray control) and isolate with GI cement.
For root apexification insert the paste into apical area and seal it with the help of amalgamate plunger and cotton ball or paper points. The paste can be condensed by use of ultrasonic handpiece at average speed without water sprinkling. It is important to check by X-Ray the accuracy of applying of material, which is supposed to remain as a permanent part of filling. Block the rest part of root canals, isolate with luting material and restore the tooth crown.
For a pulp capping treat prepared cavity with antiseptic and apply small amount of paste on open area with the help of spherical applicator. Close the area then with temporary filling till next visit. At positive results during next visit remove temporary filling and medical capping, then isolate with GI cement and make the tooth crown restoration.

PRESENTATION

Powder	20 doses, 0.25 g each / 10 doses, 0.25 g each / 5 doses, 0.25 g each
Distilled water (bottle)	5 ml

STORAGE
Store at the temperature from 5 °C to 25 °C.
Warning! Avoid the contact of powder with air!
Do not use after expiry date.
Shelf life – 3 years.

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