

IA 105 Locking of Screwed Joints

IA 105 is one-component anaerobic medium viscosity adhesive. It is high strength adhesive and it is used for locking nuts, screws, pegs etc. and everywhere maximum safety is requested. It prevents unlocking of stud bolts and nuts by vibration. They are not damaged during dismantling and they can be used again. It is resistant to material fatigue. After the application the components slide better in themselves because they are lubricated with the adhesive.

IA 105 cures fast and reliably on most metal surfaces. Curing on passive materials can be speeded up by using the activator AC 64.

The resistance against industrial fluids is excellent. It seals perfectly the screw-threads against oils, fuels, fluids and gases, it protects against the corrosion on threads.

Chemické složení: **IA 105** is based on di-methacrylate resin.

General Characteristics:

Colour : red

Corrosivity : none

Flesh point : $>100^{\circ}\text{C}$

Maximum gap : up to 0.15mm

Shelf life : 12 months (store at 0°C a $+5^{\circ}\text{C}$)

Specific weight : 1.1 g/cm^3

Toxicity : low

Temperature limit : -50°C až $+150^{\circ}\text{C}$

Viscosity : 500 mPas @ 20°C

Performance characteristics:

Strength Typical Value

Break moment 16 - 30 N/mm²

Separation moment 25 - 55 N.m dle DIN 54454

Tensile Shear Strength 15 - 20 N/mm²

* Tested on M10 screws and nuts manufactured from mild steel

Application:

IA 105 is designed for high strength locking of threads, e.g. stud bolts, screw shackles for high weighting, screw tubular machinery. It substitutes protective (elastic) pads and plastic pads. It locks screws, threads and hydraulic screw systems of machinery equipments. It is used on screws/gearbox drive shafts, screws on top of bearing, shallow head screws, screws of conveyor belts and on constructional equipments. Because of its chemical resistance it is ideal for the application on equipments where the corrosive chemicals are used.

The Specified values are average and do not represent specifications.

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