

Technical Data Sheet

NewPro Graffiti 1K Permanent Protection AXSP for Glass, Metal and Plastic (PC, PMMA and ABS) for PROFESSIONAL Users

NewPro Graffiti 1K Permanent Protection AXSP is a new developed resin for durable easy to clean, dirt resistance, anti-graffiti and strong water repellency smart coatings.

NewPro in Coatings

The **NewPro** range of raw materials for coatings is specifically developed for smart and functional coatings, to obtain functions like easy to clean, superhydrophobic, superhydrophilic, anticorrosive, heat reflective, anti-microbial, anti-fogging and self-cleaning. The technology developed comprises advanced inorganic and hybrid sol-gel-technology, organometallic polymers and nano materials for solvent and water based systems.

NewPro Graffiti 1K Permanent Protection AXSP

NewPro Graffiti 1K Permanent Protection AXSP is a unique solvent based resin (60% solids in Butyl acetate) that can be applied in coatings for metal, plastic and glass substrates. When applied at very low layer thickness of 0.5 to 2µm it provides the surface with a protective hard coating that shows durable easy to clean, dirt resistance, anti-graffiti and strong water repellency properties.

The unique feature of **NewPro Graffiti 1K Permanent Protection AXSP** is that it covalently bonds with the substrate resulting in a very durable finish.

NewPro Graffiti 1K Permanent Protection AXSP can be used as standalone resin or might be formulated with other raw materials like white and colored pigments, organic resins, fillers and additives. The use of water based raw materials should be avoided.

NewPro Graffiti 1K Permanent Protection AXSP in formulated coatings

NewPro Graffiti 1K Permanent Protection AXSP was tested in a coating and applied on polycarbonate, PMMA, ABS, metal and glass substrates as a clear thin film. The coating was room temperature dried for 8 hours.

Performance properties of a NewPro Graffiti 1K Permanent Protection AXSP based coating system:

Layer thickness µm	2.0
Adhesion ¹⁾ on PC	Pass
Adhesion on PMMA	Pass



Adhesion on ABS	Pass
Adhesion on Metal	Pass
Adhesion on Glass	Pass
Pencil hardness metal	>6H
Contact angle H ₂ O	108°
Contact angle Hexadecane	57°



Dirt resistance Coffee/MEK	Pass/Pass
Permanent marker test	Cannot be written on, no adhesion of ink
OT bend test	Pass

1)According to ISO 2409, Pass = 0

Compared to other hydrophobic coatings the unique feature of **NewPro Graffiti 1K Permanent Protection AXSP** based systems is its durability. It can sustain mechanical abrasion, chemical attack and is UV stable. Target applications for **NewPro Graffiti 1K Permanent Protection AXSP** would be high performance industrial coatings such as protective, coil, marine and automotive coatings.

Read carefully:

The information on this data sheet is based on the current status of technical development as well as our experience with the product. However, given the variety of surfaces and ambient conditions, the information provided on this data sheet shall in no way diminish the responsibility of the user to ensure with due care, that our product is suited for the intended purpose, surface and application conditions. Note in particular, that we accept no liability in cases where we have not explicitly stated application purposes and types of use.