



HEXA FOR™ 695

ADDITIVE FOR COATING

DESCRIPTION

HEXA FOR™ 695 is a water-based fluorinated polymer compatible with several waterborne coating and latex paint.

HEXA FOR™ 695 is used as an additive in a wide variety of industrial coating formulations to improve oil repellency, cleanability and dirty pickup resistance.

SPECIAL FEATURES

- ❖ Excellent oil repellency
- ❖ For water based product
- ❖ Anti stain properties
- ❖ Easy to clean properties
- ❖ Meets the goals of the voluntary U.S. EPA 2010/2015 PFOA Stewardship Program
- ❖ Targeted below LOD for PFOA (**PFOA free***)

TECHNICAL INFORMATION

APPEARANCE	White/pale yellow liquid
IONIC CHARGE	Non ionic/cationic
pH	4 – 7
DENSITY	1.07 gr/cm ³
DILUTION	Dilutable in all proportion with cold water
BOILING TEMPERATURE	100°C (212°F)
SOLID CONTENT	29-31 % (wt)
COMPOSITION	29-31% Fluorinated Polymer 8-10% Dipropylene Glycol Dimethyl Ether 59-63% Water

TECHNICAL SPECIFICATION

Solid content: 29 – 31%

pH (5% in water): 4 – 7

APPLICATIONS

HEXA FOR™ 695 expresses its best properties added at 0.3% – 2% as supplied in final formulation. Compatible with cationic and non-ionic systems. The dosage levels are indicated for the purpose of orientation, depending on the application and performances required.

SOLUBILITY

Water.

SURFACE TENSION IN DEIONIZED WATER AT 25°C (Wilhelmy plate method)

- ❖ 33.4 dyn/cm a 0.01 %
- ❖ 26.7 dyn/cm a 0.05 %
- ❖ 23.5 dyn/cm a 0.1 %

STORAGE AND STABILITY

HEXA FOR™ 695 is stable for two years and more if stored in original closed drums between 5 – 40°C. Shake before use because some precipitate could occur.

PERSONAL SAFETY

HEXA FOR™ 695 is based only on C6 fluorinated chains with no possibility of PFOA formation (**PFOA free***). Consult the current Safety Data Sheet for safety use of the product.

PACKAGING

- ❖ Kg 50 – Plastic Drum
- ❖ Kg 200 – Plastic Drum
- ❖ Kg 1000 – Plastic Drum

* Wherever the term "PFOA Free" is used in this website, it means content of PFOA is less than limit of detection (20ppb).



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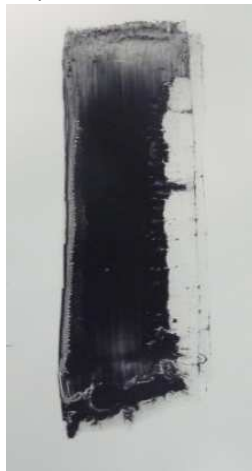
PERFORMANCES

DIRT PICKUP RESISTANCE

Dirt pickup resistance relates to paint's ability to resist at accumulation of dirt, dust and particles. The test is carried out by adding to a white alkyd enamel, 1% of **HEXAFORT™ 695** as supplied (0.3% of active part). A black cardboard panel supplied by Leneta (Plain Black Chart BK) is coated with a 200µm of this formulation. The film is left to dry for 48 hours at room temperature. On the coating's surface is applied an aqueous slurry at 33% of iron oxide with a particle size <5µm. After three hours of application, the panel is rinsed off with water and the color difference is evaluated visually before and after the treatment.



Alkyd enamel without additives



Alkyd enamel with 1% of Hexafor 695



CONTACT ANGLES AND SURFACE TENSION

	Water contact angle [°]	n-Hexadecane contact angle [°]	Surface Tension [mN/m]
Alkyd Enamel	89.2	19.9	29.35
Alkyd enamel+ HEXAFOR™695 0,3% a.m.	70.6	46.5	34.81

An increase of the oil contact angles indicates a greater soil repellency

ANTISTAIN PROPERTIES

To assess anti-stain effect of the previous coating, a drop of coffee, ketchup, soy, mustard, mayonnaise and vine have been applied on the surface. After 8 hours the drops have been removed and evaluated stains left on the coating.



Alkyd enamel without additives



Alkyd enamel with 1% of Hexafor 695

