

ORGAL[®] K 6455 E

UV Curable Elastomeric Acrylic Polymer

1/11

INTRODUCTION

Orgal K 6455 E is a high solids, APEO free pure acrylic polymer produced with UV crosslinking technology. **Orgal K 6455 E** can be used to formulate elastomeric wall coatings with an outstanding exterior durability, having excellent elongation, tensile strength, crack bridging properties and dirt pick-up resistance even at very low temperatures after ageing. **Orgal K 6455 E** does not yellow at UV exposure

TYPICAL PROPERTIES

Appearance	White liquid
Solid Content % \pm 1	60
Viscosity (Brookfield RVT 2/20)	1.250 \pm 750 cps
pH	5.0 - 7.0
MFFT ($^{\circ}$ C)	< 0
T _g ($^{\circ}$ C)	- 35
Storage Stability	Protect from freezing

APPLICATION PROPERTIES

Orgal K 6455 E with excellent UV and crack resistance, outstanding balance of elongation, tensile strength and dirt pick-up resistance over a wide temperature range is suitable for formulation of elastomeric wall coatings. The formulated elastomeric wall coatings have very good water vapor permeability, also preventing the penetration of CO₂, Cl⁻ ions, air, and other acidic gases. **Orgal K 6455 E** offers a good adhesion to a variety of substrates without degradation. The coatings retain an attractive and non-yellowing appearance as they age. For a good application surface preparation should be done. The substrate should be clean, contain no biologic degradation and not have cracks higher than 2 mm.

- Excellent UV curability
- Excellent dirt pick-up resistance
- Very low water absorption
- Water vapor permeable
- Adhesion over a variety of substrates
- Internally plasticized, eliminates the need for external plasticizer
- High solids
- Very low surface tack

PRODUCT HANDLING – STORAGE – SHELF LIFE

To ensure safe storage of this emulsion, containers should be well sealed to prevent the water evaporation and skin forming. The emulsion must be stored between 5-25 $^{\circ}$ C for a maximum of 12 months and freezing must be avoided.