

# ORGAL<sup>®</sup> K 6455 E

# **UV Curable Elastomeric Acrylic Polymer**

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## **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 Solid Content %  $\pm$  1 Viscosity (Brookfield RVT 2/20) pH MFFT (°C) T<sub>g</sub> (°C) Storage Stability White liquid 60 1.250 ± 750 cps 5.0 - 7.0 < 0 - 35 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  $CO_2$ , Cl<sup>-</sup> 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 - SHELFLIFE

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°C for a maximum of 12 months and freezing must be avoided.

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