



IPAPLAST

A single component waterbased, elastomeric, flexible, reflective, protective coating for vertical and horizontal substrates

PRODUCT USE

IPAPLAST is a decorative, protective and durable elastomeric coating for exterior and interior use. May be applied to concrete, block, brick, asbestos shingles, wood, galvanized metal and urethane foam. Provides weatherproofing of vertical and horizontal surfaces without changing lines. High resistance to sun, rain and freeze/thaw cycles. Excellent elastomeric roof mastic when used as a reflective waterproof coating over various roofing substrates such as concrete, galvanized steel, asphalt roof shingles and sprayed in-place polyurethane foam.

PRECAUTIONS

Apply only over sound substrates, clean of excessive oils, greases, chalking or dusting. Do not apply when surface or ambient temperatures are below 5°C or expected to drop below 5°C within 24 hours. Do not apply when surface temperature exceeds 37°C. Thinning is not recommended. If thinned, physical properties will be drastically altered.

COMPOSITION

A premixed heavy bodied suspension with an acrylic latex emulsion, fillers and pigment.

COLORS

IPAPLAST is manufactured in white. Custom blended colors may be ordered in quantities of 300 kgs or more. Colors will decrease the reflective properties of the material.

SIZES

20 kg pails and 220 kg drums

COVERAGE

Will vary with the applicator and porosity of the surface to be coated. Approximate coverage per 25kgs for a one coat application at 0,8mm wet (0,6mm dry) is 15 sm². Two coats (1,5-2,0 kg/m²) are recommended.

TECHNICAL INFORMATION

In order to perform for use as described, herein, IPAPLAST has been designed with a careful balance of the following:

1. Mechanical properties
2. Low temperature flexibility
3. Dirt pick-up resistance
4. Surface reflectivity

under actual exterior cure and exposure conditions, IPAPLAST, when applied as directed, will have the following properties:

1. MECHANICAL PROPERTIES (2 yr. exterior exposure)

Tensile strength	0,45MPa
recovery	60 %

2. LOW TEMPERATURE FLEXIBILITY* (2yr.exterior exposure)

-18°C	Pass
-10°C	Pass
0°C	Pass

*+Pass =180° bend acc. to ASTM.

3. DIRT PICK-UP AND MILDEW RESISTANCE

(2 yr. exterior exposure)

Dirt pick-up resistance	Excellent
Mildew	None

IPA Bauchemische Produkte GmbH	
Werk: Riedhof 5 D- 82544 Egling	
EN 1504-2 Surface protection system for concrete Coating	
Permeability to CO ₂	s _D > 50m
Permeability to Water Vapour	Class 2
Capillary Absorption & Permeability to Water	<0.1 kg/m ² /H ^{0.5}
Adhesion	≥ 0.8 MPa
Dangerous substances	Complies with 5.4

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4. SURFACE REFLECTIVITY

(1 year exterior exposure) Bright Sunlight

	Air Temp (°C)	Asphalt Shingle (°C)	Polyurethane Foam (°C)	Wood (°C)	Steel (°C)
Ipaplast coated	27°	35°	33°	32°	35°
uncoated	27°	70°	50°	45°	68°

OTHER DATA (maximum two week cure) 23°C

Viscosity	ca. 10.000Ps
Total Solids	ca 68,9%
Weight/Volume	1,35kg/l
Percentage plasticiser	None
Dry Peel adhesion	Excellent
Wet Peel adhesion	Excellent
Tensile strength max. stress	0,43Mpa
Tensile strength at break	0.37Mpa
Elongation at max. stress	180%
Elongation at break	228%
Recovery (after 25% elongation)	72%
Low Temperature Flexibility (-20°C) 1 week cure	Pass
300 hr Weather-o-meter	Pass + Pass = 180°bend
Water ponding resistance	Excellent
Water immersion and simulated rain test (on asphalt roof shingle) adhesion loss, film degradation and wash out	None
Acid resistance (mild)	Good
Base resistance (mild)	Good

INSTALLATION

PREPARATION OF SURFACE - Surface must be firm and clean of scale, loose material, oils and grase to permit bond and staining of coating. Concrete and masonry surfaces must be flush. For uniform finish remove any mortar projections; repair other than

hairline cracks, broken corners, honeycombs and form tears over 0,2mm deep (IPA Zementpatch quick setting concrete patch or IPATOP SM patch recommended).

Exterior soft wood, subject to expansion and contraction, should be primed with a good grade exterior primer (latex). Galvanized metal should be oxidized, or treated with a wash primer. Other metals should be free of surface rust or oils.

Mixing: Mix thoroughly with Jiffy Mixer.

APPLICATION

IPAPLAST may be applied with a brush, roller, squeegee or spray (air or airless).

CURING

Dry to touch: 2 to 3 hours depending on temperature and humidity. Recoat after 24 hours

Adhesion, tensile strength and elongation tests conducted using Instron Tensile Tester

Safety Recommendations:

Observe all protective measures prescribed by any competent social insurance association against occupational hazards in the chemical industry. Use gloves and protective goggles. Avoid any contact between the product and your skin. For improved protection, apply cream to your hands. Use a good deal of water to wash away any splashes of material reaching your skin or an eye; afterwards, immediately consult a physician. **Version 1702**