



■ - BASF

We create chemistry

When Innovation Delivers Solid Performance

BASF Solutions for
Flexible Roof Coatings for
Brighter and Stronger Roofs

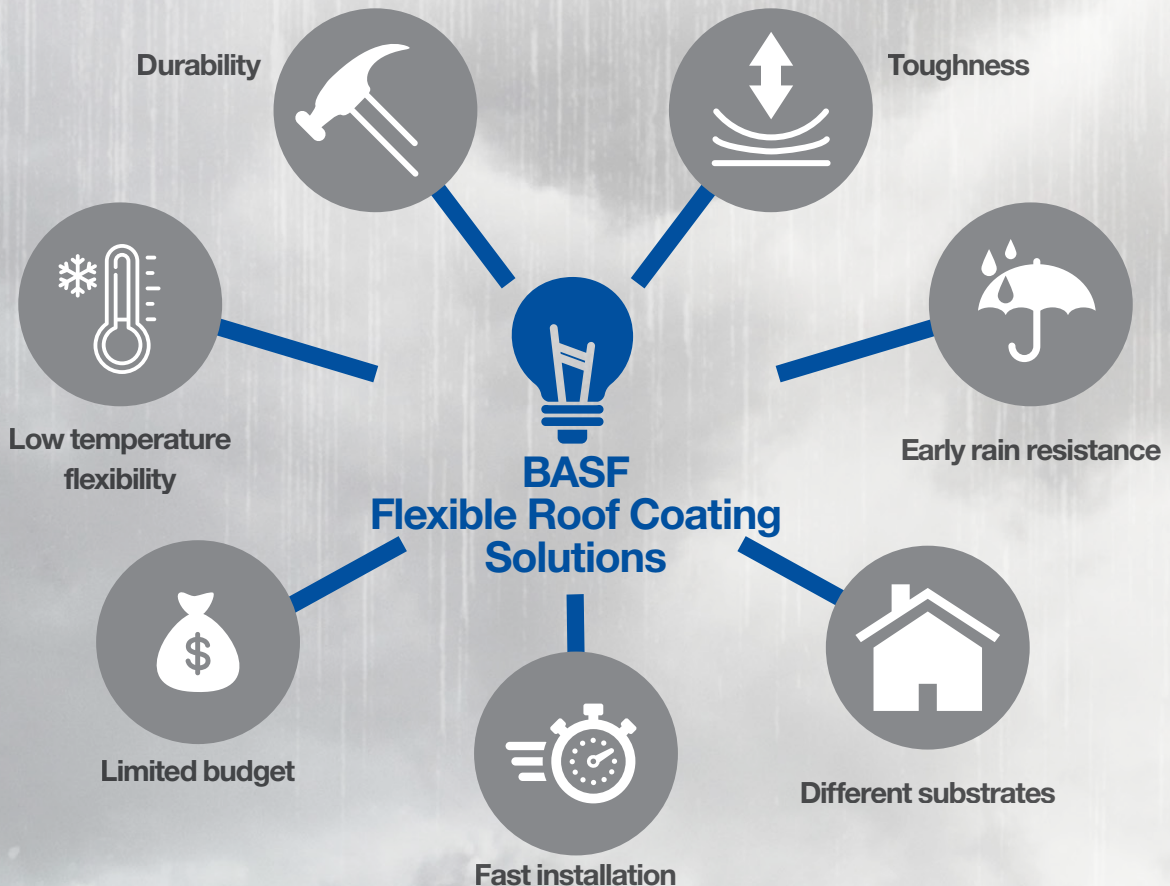
ABOUT FLEXIBLE ROOF COATINGS

Flexible roof coating is a liquid applied coating to form a holistic elastomeric membrane on flat or low sloped roofs for industrial, commercial and residential areas. Globally, waterborne acrylic flexible roof coating has gained increasing interest due to its outstanding characteristics with respect to:

- **Sustainable and Environmental-Friendly Technologies** - APEO & formaldehyde free water based acrylic technologies
- **Cool Roof with Heat Reflectivity** - for cost saving and energy efficiency
- **Tough & Durable Technologies** - extend service life for roof coatings with high compatibility on existing roofing systems, provide sustainability with longer service life
- **Fast & Easy solutions** - simplified and easy applications to form seamless watertight and high-performance membranes

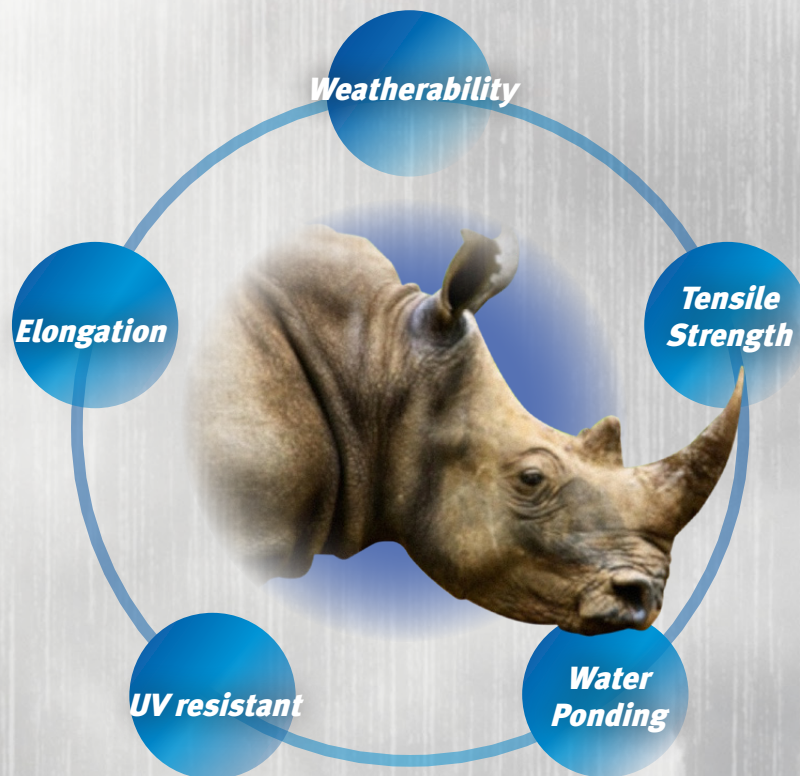


SOLUTIONS FOR DIVERSE ROOF REQUIREMENTS



Tough & Durable **Flexible Roof Coatings**

High durability is expected for high-end roof coating to withstand daily expansion and contraction of roof structures. The cured membrane should withstand harsh weather conditions.



Acronal[®] PLUS 7544

This is a state of the art BASF technology to achieve the high level of toughness and durability in acrylic roof coatings.

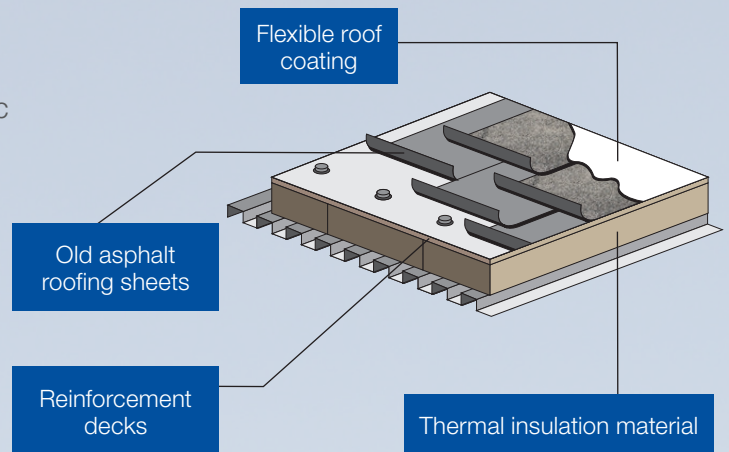
- ✓ **Tensile strength, 7 days > 4Mpa**
- ✓ **Elongation, 7 days > 400%**
- ✓ **Tear strength, 7 days 18.2 N/mm**
- ✓ **Pull strength, 7 days 1.6 Mpa**
- ✓ **Water absorption, 7 days 13.8%**



Acronal® NX 3587

New generation room temperature cross-linkable acrylic copolymer developed for repair markets.

- *Excellent asphalt bleed resistance*
- *Outstanding exterior durability*
- *Good water ponding resistance with very low water absorbance*
- *Good adhesion to multiple substrates*



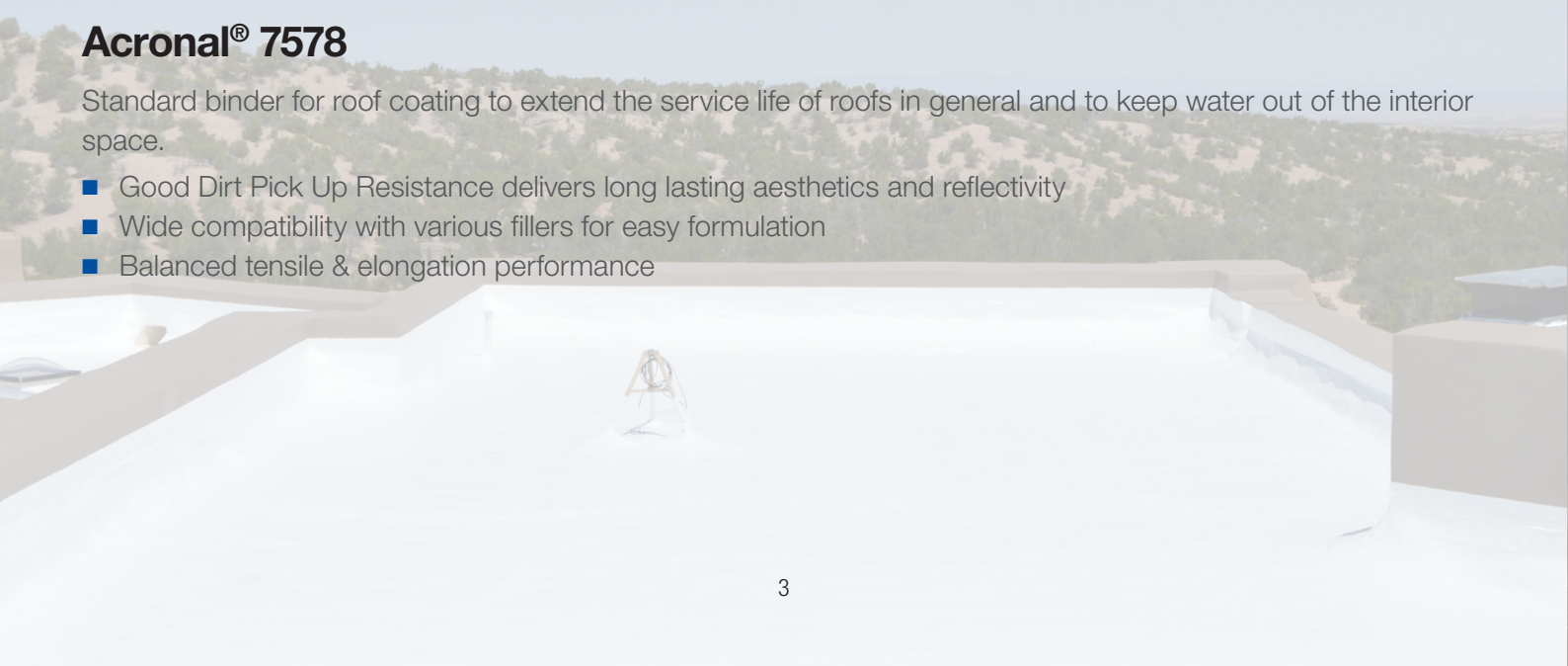
Value in Use General Purpose Flexible Roof Coatings

The standard dispersion for roof coatings are ideal solutions to renovate old roofs, to extend service life and to keep water out of the interior space for both new and existing roof systems.

Acronal® 7578

Standard binder for roof coating to extend the service life of roofs in general and to keep water out of the interior space.

- Good Dirt Pick Up Resistance delivers long lasting aesthetics and reflectivity
- Wide compatibility with various fillers for easy formulation
- Balanced tensile & elongation performance





Fast & Easy Roof Coating Solutions

BASF is committed to continuously develop the state-of-the-art technology for construction markets which are:

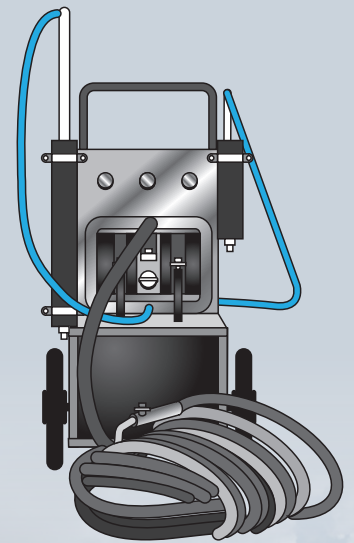
- Easy-to-apply
- Faster, convenient, with better value in use

Simplified application to form seamless watertight and durable membrane with machine applied technologies

Acronal® XPRESS 7573 - Instant Set Technology

BASF's instant set technology enables faster job completion with sprayable flexible roof coatings. These coatings with the support of accelerator set instantly and provide applicators with flexibility to build different thickness of films.

- Fast setting within minutes to cover installation on different roof substrates
- High efficiency with less labor cost
- Wet thickness up to 2 mm can be done in one coat



Acronal® XPRESS 7540 - Early Rain Resistance Technology

This technology is particularly important during the rainy season as it enables roof coatings developed with the emulsion to get early rain resistance after 30 mins of application.

- Systematic crosslinking for better film buildup
- Early rain resistance - extended seasonal application with less weather influence (rainy season)
- Enables quick foot traffic resistance
- Good weatherability & water resistance



BASF ACRONAL® FLEXIBLE ROOF COATING PORTFOLIO

Product Name	Physical Properties			Application			Adhesion				Key Features
	Tg°C	Solid Content by weight, %	Viscosity (cps)	General Purpose	High durability	Primer	TPO & EPDM *	Asphalt	Concrete	Metal	
Acronal® PLUS 7544	-	61±1	3,000 – 10,000	■	■		■	■	■	■	High performance roof coatings with excellent tensile strength, elongation and water ponding resistance.
Acronal® NX 3587	-5	55±1	200 - 500	■	■		■	■	■	■	High performance with excellent asphalt bleed and water resistance.
Acronal® 7578	23	50±1	200 - 900	■			▼	▼	■	▼	Balanced performance for tensile, elongation and dirt pick up resistance.
Acronal® XPRESS 7540	-5	50±1	200 - 900	■	■		■	■	■	■	Early rain resistance. High performance with excellent asphalt bleed and water resistance.
Acronal® XPRESS 7573	-5	55±1	200 – 1,000	■			■	■	■		Instant set technology with balanced mechanical performance.
Acronal® 5041	5	52±1	40-300			■	■	■	■	■	Excellent adhesion to multiple substrates with good water resistance.

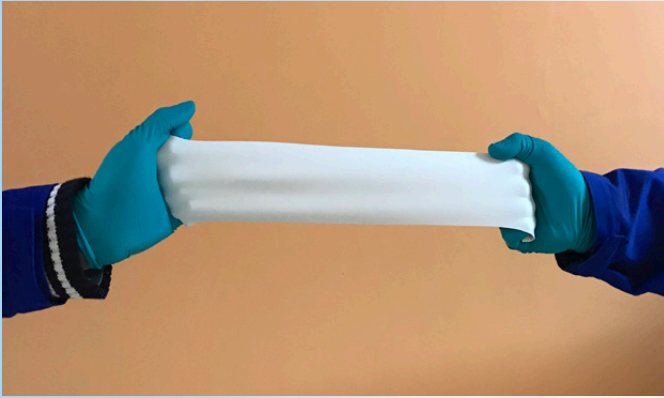
■ Recommended

▼ Suitable

* Applied over primer

KEY TECHNICAL PERFORMANCE FOR THE RIGHT FLEXIBLE ROOF COATINGS

Tensile strength & Elongation



The balance of tensile strength and elongation is a very important parameter to get a high performance roof coating, as it relates to toughness and elasticity of the cured membrane.

Weatherability



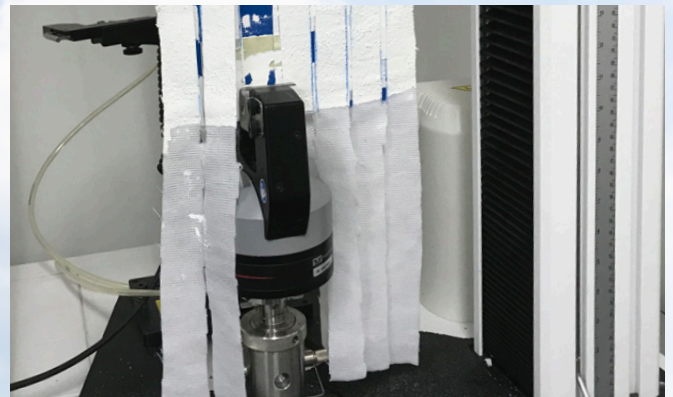
Extended service life is ensured by high retention of toughness and elasticity after different weathering.

Ponding water resistance



Protection from rain and standing water is secured by polymer with high water resistance and good adhesion to substrate.

Adhesion



Adhesion is the key attribute to deliver a balanced cohesion for strength. It is also essential for renovation of different substrates.

Dirt Pick Up Resistance



DPUR is a very critical parameter to have not only aesthetic effect but also the long term benefit of heat reflection thus energy efficiency during service life.

Crack Bridging



No leakage of the film in case of crack of the substrate to function as waterproofing. It is ensured by the cohesion of the polymer.



WE CREATE CHEMISTRY FOR A SUSTAINABLE FUTURE



ASEAN

Tel: +65 6337 0330

AUSTRALIA & NEW ZEALAND

Tel: +61 3 8855 6222

GREATER CHINA

Tel: +86 21 2039 1000

Tel: +886 2 2518 7600

JAPAN

Tel: +81 3 3796 9293

KOREA

Tel: +82 2 3707 3242

SOUTH ASIA

Tel: +91 22 2858 0300

BASF EAST ASIA REGIONAL HEADQUARTERS

Tel: +852 2731 0111

Fax: +852 2731 5633

Email : dispersions-pigments-asia@basf.com

www.BASF.com

This document, or any answers or information provided herein by BASF, does not constitute a legally binding obligation of BASF. While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, they are provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. It does not relieve our customers of the obligation to perform a full inspection of the products upon delivery or any other obligation. The claims and supporting data provided in this publication have not been evaluated for compliance with any jurisdiction's regulatory requirements and the results reported may not be generally true under other conditions or in other matrices. Users must evaluate what claims and information are appropriate and comply with a jurisdiction's regulatory requirements. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA, OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA, OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERM AND CONDITIONS OF SALE.

® = registered trademark of BASF Group

Oct 2021

Copyright © BASF SE 2021. All rights reserved.