



Adhesive Products
Engineering in chemistry.



CERALUNT™.
COLOURED GLUE
AND DESIGN ELEMENT.

www.ap-adhesives.com



content.

CERALUN™.

AN INNOVATIVE DESIGN ELEMENT FOR JEWELLERY.

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Editorial

CERALUN™. INNOVATIVE IDEAS.

Ceralun™ is a kneading material for fixing crystal stones or other materials by free setting, forming with moulds or stamping the surface.

Ceralun™ completes the optic for the put stones well and also gives you the possibility to use it as a design element because of its unique brilliant and fascinating optic.
The material is developed and produced by Adhesive Products.

THE WORLD OF CERALUN™.

CERALUN™ IS A PASTY CERAMIC WITH A BIG DIVERSITY, WHICH CREATES NEW POSSIBILITIES FOR JEWELLERY INDUSTRY. THE VARIATIONS OF CERALUN™ SHOULD FULFIL MOST OF THE DESIRES FOR APLENTY OF APPLICATIONS. MOST COMMON WAYS TO USE CERALUN™ ARE SHOWN ON THE FOLLOWING PAGES.



CERALUN™

TECHNIQUE

DESIGN

Ceralun™ is an absolutely clean material without any toxic or allergic ingredients. A major development demand is, that the material reacts completely. We worked intensive to develop a ceramic, that fulfils this demand. The concept of Ceralun™ is very much inspired by the nature. It's a ceramic reinforced resin material. Ceralun™ is as hard as a stone on the surface, whereas it has a damping character on the inside. It is possible to form very exactly, because the cold flow and the shrinkage is very low.

We divide into 2 ideas to use Ceralun™. It is developed to embed stones in the first place, because it offers many advantages in terms of adhesion and protection of the stone (also optic of the foil). Apart from that the material offers great possibilities in terms of design and surface optic.

1 Used to embed stones

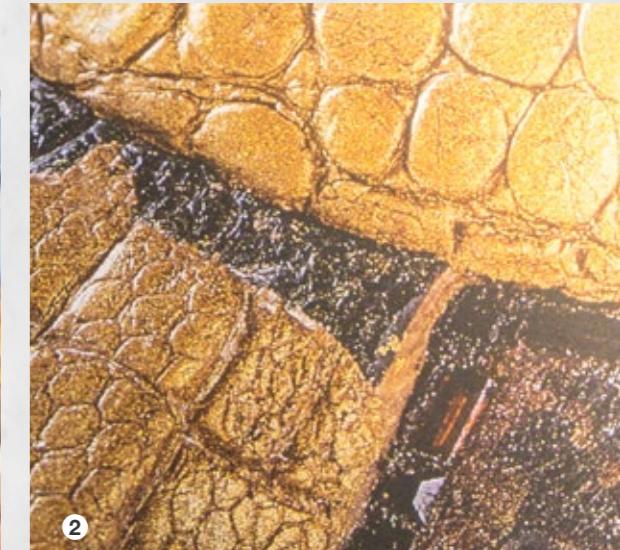
Ceralun™ was developed to embed stones in the first place. It has a lot of advantages in terms of protecting the stone and application.

- Ceralun™ compensates tolerances between metal-/plastic part and the stone/crystal
- Strong protection for the foil of the stone/crystal
 - > Resistant against chemicals in the surrounding of jewellery (perfume, creams, hair spray, etc.) and sweat
 - > Absorbs shocks completely
- Great adhesion to foiled and unfoiled stones



[01] Ceralun™ used for embedding stones.
Ceraluncolours used in this picture:

- SAPPHIRE (page 12)
- ANTIQUE GOLD (page 14)



[02] Ceralun™ used as a design element (3D surface)
Ceraluncolours used in this picture:

- ANTIQUE GOLD (page 14)
- SHINING TIGER BLACK (page 15)

RANGE OF PRODUCTS.

Ceralun™ is available in different colours. The material is also different in surface, in optic and generally in the material itself. The following products are only a part of the possibilities we are able to make. Further we develop tailor-made products for

individual requests, for example Ceralun™ with crab powder. Ceralun™ is a new modern material with highest demands in physiology. We also offer variations, which are completely natural based.



b basic colours.

Basic colours have a silk matt surface and complete continue in the colour.

The names of the colours start with „SP 300“.

- Available colours: 7 (page 12)
- Colour in the picture: Basic Blue

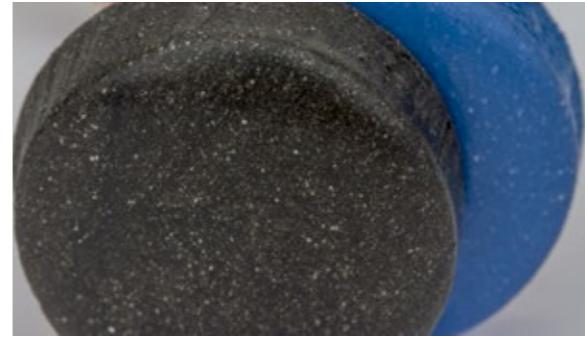


S standard colours.

Standard colours have a silk mat and a little bit shiny surface.

The names of the colours start with „184 A / 181 B“.

- Available colours: 23 (page 12-13)
- Colour in the picture: Primrose



n natural pigments.

This material is based on the shining colours, but the colour is not homogeneous. There are different pigments inside to achieve a famous look , for example the Tiger Black.

- Available colours: 13 (page 15)
- Colours in the picture: Shining Tiger Black, Shining Blue 3 P-2



l luminous colours.

Luminous colours are very modern colours, they are lighting and brightening under daylight and UV light.

- Available colours: 8 (page 15)
- Colour in the picture: Luminous Pink



s shining effects.

Shining effects have high gloss and a very bright and shiny colour on the surface.

This combines perfectly with the shining optic of the crystal.

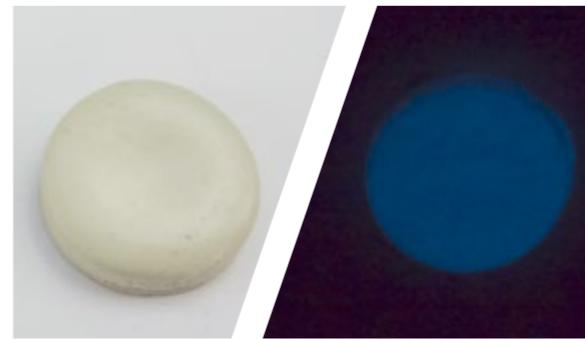
- Available colours: 21 (page 13-14)
- Colour in the picture: Shining Lilac



e effect colours.

Effect colours are based of two categories.

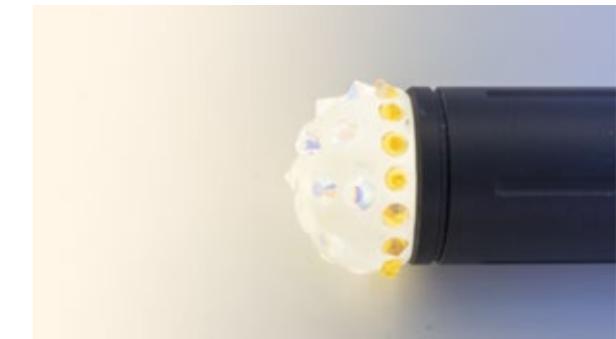
- **Metal colours:** Similar optic to real metal
 - > colours: Gold, antique gold, silver, platinum, bronze, copper (page 14)
 - > completely no corrosion
- **Shining colours:** Very similar to shining effects, but the optic is more brilliant because of a different sparkling effect
 - > Available colours: 10 (page 14)
 - > Colours in the picture: Gold, silver and bronze



g glowing colours.

Glowing colours have a phosphor-effect – they look silver at day – and after loading with normal day or room light, they become blue or green.

- Available colours: blue and green (page 16)
- Colour in the picture: Silver/Blue Deluxe



t translucent colours.

Translucent colours are inspired by white flowers and by ice, which have a translucent character. This ceramic lets light through.

A suitable application idea is to use the material in combination with light.

- Available colours: 9 (page 16)
- Colour in the picture: Crystal Ice colourless

GENERAL INFORMATION.

Ceralun™ is a strong two-component high-performance ceramic polymer composite and has excellent adhesion to all glueable materials like metal, different plastics, porcelain and especially to glass, crystals or other stone materials.

The adhesion is resistant against humidity, water, temperature and temperature changes. The material is optimized in surface hardness and in intern elasticity.

CHARACTERISTICS	SPECIAL ADVANTAGES	PHYSICAL DATA	STORAGE CONDITIONS	PACKAGING
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CHARACTERISTICS	SPECIAL ADVANTAGES	PHYSICAL DATA	STORAGE CONDITIONS	PACKAGING
-----------------	--------------------	---------------	--------------------	-----------

Characteristics

- Clinically tested chemical perfection
 - > no reaction with humidity, sweat, acids, alcohol or climatic changes
 - > almost non-aging
- No shrinkage
- Very good hardness and break resistance
- Very good colour stability
- Acoustics similar to stones
- Very good adhesion
- Is made of 85% quality inorganic ingredients
 - > no toxicity

Physical data

Mixing ratio (A : B)	1:1 by weight, 1:1 by volume
Pot life at room temperature (23°C / 73,4°F)	max. 3 h
Total hardening time at room temperature (23°C / 73,4°F)	72 h
Time needed to harden in an oven at 40°C / 104°F	12 h
Time needed to harden in an oven at 80°C / 176 °F	2 h
Time required before handling strength is reached at room temperature (23°C / 73,4°F)	12 h
Humidity during curing	30 - 70 %
Density	2,5 g/cm³
Hardness (according to DIN 53505)	D 82

Storage conditions

Storage time at room temperature (23°C / 73,4°F, 55% rel. humidity)	12 months
Lowest storage temperature	2°C / 35,6°F

CHARACTERISTICS	SPECIAL ADVANTAGES	PHYSICAL DATA	STORAGE CONDITIONS	PACKAGING
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Special advantages

- Excellent adhesion to all glueable materials (wood, plastics, metal, glass, ceramic, stone)
- Very good shock absorbance
- -40°C / +80°C tested, between glass and metal
- New designs are possible
- 3D-shaped surfaces can be created
- Every structure on the surface is possible
- Excellent chemical resistance and weather resistance
- Very good perspiration resistance
- More than ten years experience in jewellery application
- Excellent adhesion to foiled and unfoiled crystals
- Wonderful metal designs in gold, platinum and silver are possible
- Excellent wet adhesion to metal/plastic parts and to the stone or crystal
 - > The material is extremely sticky
- A lot of Ceraluncolours are available, which are very similar to the stone

CHARACTERISTICS	SPECIAL ADVANTAGES	PHYSICAL DATA	STORAGE CONDITIONS	PACKAGING
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Packaging



1 x (2 x 500 g)

1 x (2 x 50 g)

10 x (2 x 50 g)

5 x (2 x 10 g)

5 x (2 x 5 g)

APPLICATION AND MANUAL GUIDE.

Because Ceralun™ is a two-component material it's important to mix it in the right way and to handle the material right during the application.

Please follow these steps for a good application result.
For more information search on the internet or contact us.

MIXING

FORMING

APPLICATION

STONE SETTING

HARDENING

MIXING

FORMING

APPLICATION

STONE SETTING

HARDENING

Mixing

The mixing of Ceralun™ is very easy:

1. Cut the same amount of A- and B-component by quantity or volume
2. Mix it until it has a homogeneous colour (min. 3 minutes)
 - > Kneading by hand or machine

Forming

After mixing it's important to form Ceralun™ by hand or with a form.

When the forming with silicon is finished, put Ceralun™ into the fridge at -20°C for min. 1 hour.

After this process the material has a stable shape and is easy to release from the form.

A major facilitation for releasing Ceralun™ from the form is the use of **Release Agent JS 175**.

How to use JS 175:

Just coat the form with Release Agent before you put Ceralun™ into it. The release agent doesn't influence the adhesion from the stone to the Ceralun™.

MIXING

FORMING

APPLICATION

STONE SETTING

HARDENING

Application

Check the surface tension before you place Ceralun™ into the final part (metal or plastic part).

Needed surface tensions for good adhesion:

1. **For Metal:** > 38 mN/m
2. **For Plastic:** > 35 mN/m

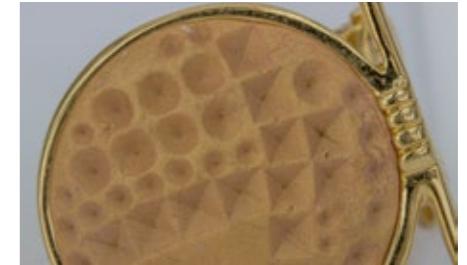
If the surface tension is not achieved surface treatment is necessary (cleaning or flaming).

Check the surface tension with the **test pen**.

The manual for the test pen is attached to the product. After checking the surface tension, place Ceralun™ to the metal/plastic part by pushing it with little pressure.

Stone setting

When Ceralun™ is placed in the final position, you can set the stones (unfoiled stones or foiled stones). The best is to use a silicon form for Ceralun™ with open spaces, that have the opposite form to the crystal (outline on the right).



Hardening

Ceralun™ needs a temperature higher than 5°C / 41°F to harden. Hardening times for aplenty of temperatures are:

time	status
Room temperature (23°C / 73,4°F)	
1 day	surface similar to leather
2 days	stiff, but still flexible
3 days	complete hardened
Oven at 40°C	
12 hours	complete hardened
Oven at 80°C	
2 hours	complete hardened

For more detailed information according to application and manual guide check the internet:

Just search for: „Ceralun“



Google link:
https://www.google.com/search?btnG=1&pws=0&q=ceralun&gws_rd=ssl

CERALUN™.

COLOURS AND OPTIONS.

BASIC COLOURS.

	1. Basic Black	art.(2x5g): 01 001 005 art.(2x10g): 01 001 010 art.(2x50g): 01 001 050 art.(2x500g): 01 001 500
	2. Basic White	art.(2x5g): 01 002 005 art.(2x10g): 01 002 010 art.(2x50g): 01 002 050 art.(2x500g): 01 002 500
	3. Basic Blue	art.(2x5g): 01 003 005 art.(2x10g): 01 003 010 art.(2x50g): 01 003 050 art.(2x500g): 01 003 500
	4. Basic Green	art.(2x5g): 01 004 005 art.(2x10g): 01 004 010 art.(2x50g): 01 004 050 art.(2x500g): 01 004 500

	5. Basic Yellow	art.(2x5g): 01 005 005 art.(2x10g): 01 005 010 art.(2x50g): 01 005 050 art.(2x500g): 01 005 500
	6. Basic Red	art.(2x5g): 01 006 005 art.(2x10g): 01 006 010 art.(2x50g): 01 006 050 art.(2x500g): 01 006 500
	7. Basic Rose	art.(2x5g): 01 007 005 art.(2x10g): 01 007 010 art.(2x50g): 01 007 050 art.(2x500g): 01 007 500

	8. Basic Walnut	art.(2x5g): 01 008 005 art.(2x10g): 01 008 010 art.(2x50g): 01 008 050 art.(2x500g): 01 008 500
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STANDARD COLOURS.

	1. Black	art.(2x5g): 02 001 005 art.(2x10g): 02 001 010 art.(2x50g): 02 001 050 art.(2x500g): 02 001 500
	4. Sapphire	art.(2x5g): 02 004 005 art.(2x10g): 02 004 010 art.(2x50g): 02 004 050 art.(2x500g): 02 004 500
	7. Caribbean	art.(2x5g): 02 007 005 art.(2x10g): 02 007 010 art.(2x50g): 02 007 050 art.(2x500g): 02 007 500
	10. Turmaline	art.(2x5g): 02 010 005 art.(2x10g): 02 010 010 art.(2x50g): 02 010 050 art.(2x500g): 02 010 500
	13. Malachite	art.(2x5g): 02 013 005 art.(2x10g): 02 013 010 art.(2x50g): 02 013 050 art.(2x500g): 02 013 500
	2. Finest White	art.(2x5g): 02 002 005 art.(2x10g): 02 002 010 art.(2x50g): 02 002 050 art.(2x500g): 02 002 500
	5. Dark Sapphire	art.(2x5g): 02 005 005 art.(2x10g): 02 005 010 art.(2x50g): 02 005 050 art.(2x500g): 02 005 500
	8. Indicolite	art.(2x5g): 02 008 005 art.(2x10g): 02 008 010 art.(2x50g): 02 008 050 art.(2x500g): 02 008 500
	11. Mint	art.(2x5g): 02 011 005 art.(2x10g): 02 011 010 art.(2x50g): 02 011 050 art.(2x500g): 02 011 500
	14. Primrose	art.(2x5g): 02 014 005 art.(2x10g): 02 014 010 art.(2x50g): 02 014 050 art.(2x500g): 02 014 500
	3. Turquoise	art.(2x5g): 02 003 005 art.(2x10g): 02 003 010 art.(2x50g): 02 003 050 art.(2x500g): 02 003 500
	6. Indigo	art.(2x5g): 02 006 005 art.(2x10g): 02 006 010 art.(2x50g): 02 006 050 art.(2x500g): 02 006 500
	9. Ultramarine	art.(2x5g): 02 009 005 art.(2x10g): 02 009 010 art.(2x50g): 02 009 050 art.(2x500g): 02 009 500
	12. Celadon	art.(2x5g): 02 012 005 art.(2x10g): 02 012 010 art.(2x50g): 02 012 050 art.(2x500g): 02 012 500
	15. Ocher	art.(2x5g): 02 015 005 art.(2x10g): 02 015 010 art.(2x50g): 02 015 050 art.(2x500g): 02 015 500

STANDARD COLOURS.

	16. Rose	art.(2x5g): 02 016 005 art.(2x10g): 02 016 010 art.(2x50g): 02 016 050 art.(2x500g): 02 016 500
	17. Coral	art.(2x5g): 02 017 005 art.(2x10g): 02 017 010 art.(2x50g): 02 017 050 art.(2x500g): 02 017 500
	21. Burgundy	art.(2x5g): 02 021 005 art.(2x10g): 02 021 010 art.(2x50g): 02 021 050 art.(2x500g): 02 021 500
	18. Vermilion	art.(2x5g): 02 018 005 art.(2x10g): 02 018 010 art.(2x50g): 02 018 050 art.(2x500g): 02 018 500
	20. Lilac	art.(2x5g): 02 020 005 art.(2x10g): 02 020 010 art.(2x50g): 02 020 050 art.(2x500g): 02 020 500
	22. Amethyst	art.(2x5g): 02 022 005 art.(2x10g): 02 022 010 art.(2x50g): 02 022 050 art.(2x500g): 02 022 500
	23. Sand	art.(2x5g): 02 023 005 art.(2x10g): 02 023 010 art.(2x50g): 02 023 050 art.(2x500g): 02 023 500
	25. Umber	art.(2x5g): 02 025 005 art.(2x10g): 02 025 010 art.(2x50g): 02 025 050 art.(2x500g): 02 025 500

SHINING EFFECTS.

	1. Shining Blue 1	art.(2x5g): 03 001 005 art.(2x10g): 03 001 010 art.(2x50g): 03 001 050 art.(2x500g): 03 001 500
	2. Shining Blue 2	art.(2x5g): 03 002 005 art.(2x10g): 03 002 010 art.(2x50g): 03 002 050 art.(2x500g): 03 002 500
	3. Shining Blue 4	art.(2x5g): 03 003 005 art.(2x10g): 03 003 010 art.(2x50g): 03 003 050 art.(2x500g): 03 003 500
	4. Shining Green 1	art.(2x5g): 03 004 005 art.(2x10g): 03 004 010 art.(2x50g): 03 004 050 art.(2x500g): 03 004 500
	5. Shining Green 2	art.(2x5g): 03 005 005 art.(2x10g): 03 005 010 art.(2x50g): 03 005 050 art.(2x500g): 03 005 500
	6. Shining Yellow 1	art.(2x5g): 03 006 005 art.(2x10g): 03 006 010 art.(2x50g): 03 006 050 art.(2x500g): 03 006 500
	8. Shining Yellow 3	art.(2x5g): 03 008 005 art.(2x10g): 03 008 010 art.(2x50g): 03 008 050 art.(2x500g): 03 008 500
	9. Shining Yellow 4	art.(2x5g): 03 009 005 art.(2x10g): 03 009 010 art.(2x50g): 03 009 050 art.(2x500g): 03 009 500
	12. Shining Red 1	art.(2x5g): 03 012 005 art.(2x10g): 03 012 010 art.(2x50g): 03 012 050 art.(2x500g): 03 012 500
	10. Shining Yellow 5	art.(2x5g): 03 010 005 art.(2x10g): 03 010 010 art.(2x50g): 03 010 050 art.(2x500g): 03 010 500
	11. Shining Yellow 6	art.(2x5g): 03 011 005 art.(2x10g): 03 011 010 art.(2x50g): 03 011 050 art.(2x500g): 03 011 500

CERALUN™.

COLOURS AND OPTIONS.

SHINING EFFECTS.



EFFECT COLOURS.



NATURAL PIGMENTS.



CERALUN™.

COLOURS AND OPTIONS.

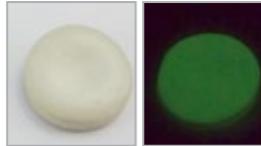
TAKE A CLOSER LOOK.

GLOWING COLOURS.



1. Silver/Blue Deluxe

art.(2x5g): 07 001 005
art.(2x10g): 07 001 010
art.(2x50g): 07 001 050
art.(2x500g): 07 001 500



2. Silver/Green Deluxe

art.(2x5g): 07 002 005
art.(2x10g): 07 002 010
art.(2x50g): 07 002 050
art.(2x500g): 07 002 500

TRANSLUCENT COLOURS.



1. Crystal Ice colourless

art.(2x5g): 08 001 005
art.(2x10g): 08 001 010
art.(2x50g): 08 001 050
art.(2x500g): 08 001 500



2. Blue 1

art.(2x5g): 08 002 005
art.(2x10g): 08 002 010
art.(2x50g): 08 002 050
art.(2x500g): 08 002 500



3. Blue 2

art.(2x5g): 08 003 005
art.(2x10g): 08 003 010
art.(2x50g): 08 003 050
art.(2x500g): 08 003 500



4. Green

art.(2x5g): 08 004 005
art.(2x10g): 08 004 010
art.(2x50g): 08 004 050
art.(2x500g): 08 004 500



5. Yellow 1

art.(2x5g): 08 005 005
art.(2x10g): 08 005 010
art.(2x50g): 08 005 050
art.(2x500g): 08 005 500



6. Yellow 2

art.(2x5g): 08 006 005
art.(2x10g): 08 006 010
art.(2x50g): 08 006 050
art.(2x500g): 08 006 500



7. Pink

art.(2x5g): 08 007 005
art.(2x10g): 08 007 010
art.(2x50g): 08 007 050
art.(2x500g): 08 007 500



8. Lilac 1

art.(2x5g): 08 008 005
art.(2x10g): 08 008 010
art.(2x50g): 08 008 050
art.(2x500g): 08 008 500



9. Lilac 2

art.(2x5g): 08 009 005
art.(2x10g): 08 009 010
art.(2x50g): 08 009 050
art.(2x500g): 08 009 500



Box 1.

Contains basic colours,
standard colours, and
shining effects



Box 2.

Contains effect colours,
natural pigments, luminous colours,
glowing colours and
translucent colours

EQUIPMENT FOR CERALUN™.



[1] **Release Agent JS 175, 100 ml**
(art. 00 001 100)
(Contains high molecular liquid wax)

[2] **Test Pen** (art. 00 002 001)

Technical changes and mistakes remain reserved.
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Engineering in chemistry.

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Please notice:

The mentioned data and information are based on tests in our laboratory.
Reliable statements about the behaviour of the glue in practical use and the suitability for a specific use can not be taken.

The suitability of the product for a provided use by consideration of all necessary conditions must be tested by the user itself.

The kind, the physical and chemical properties of the used materials and the influences during the transport, storage and usage of the glue can effect deviations in the behaviour of the glue in comparison to the behaviour in our laboratory.

The mentioned data are measured in our laboratory and they are typical average values or values which are measured only one time.

The mentioned data and information represent consequently no guarantee / assurance of the parameters or the suitability of the glue for a specific use.